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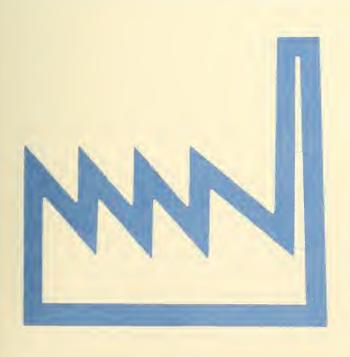
1987 Census of Manufactures

MC87-I-23E

INDUSTRY SERIES

Miscellaneous Fabricated Textile Products

Industries 2391, 2392, 2393, 2394, 2395, 2396, 2397, and 2399





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If you have any questions concerning the statistics in this report, call (301) 763-2510.

1987

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INTRODUCTION

PURPOSE AND USES OF THE ECONOMIC **CENSUSES**

The economic censuses are the major source of facts about the structure and functioning of the Nation's economy. They provide essential information for government, business, industry, and the general public.

Economic censuses furnish an important part of the framework for such composite measures as the gross national product, input-output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.

Policy-making agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.

Trade associations study trends in their own and competing industries, and keep their members informed of market changes.

Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

AUTHORITY AND SCOPE

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic censuses every 5 years, covering years ending in 2 and 7. The 1987 Economic Censuses consist of the

Census of Retail Trade Census of Wholesale Trade Census of Service Industries Census of Transportation Census of Manufactures Census of Mineral Industries Census of Construction Industries

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1987 Census of Agriculture and 1987 Census of Governments are conducted separately.) The next economic censuses are scheduled to be taken in 1993 covering the year 1992.

AVAILABILITY OF THE DATA

The results of each of the economic censuses are available in printed reports, for sale by the U.S. Government Printing Office, and on microfiche, computer tape, compact discs with read-only memory, and flexible diskettes, for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Census Bureau, Washington, DC 20233. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State Data Centers in every State and Business and Industry Data Centers in many States also supply economic census statistics.

WHAT'S NEW IN 1987

Several changes have taken place for the 1987 censuses. Data will be reported on the basis of the newly revised Standard Industrial Classification (SIC) system with selected reports including "bridge tables," linking the old and new classification systems. A new set of metropolitan areas has been adopted, and more detailed information will be available for businesses with no paid employees. For additional information on these changes, review the subsequent text.

HISTORICAL INFORMATION

The economic censuses have been taken together as an integrated program at 5-year intervals since 1967, and before that for 1963, 1958, and 1954. Prior to that time, the individual censuses were taken separately at varying inter-

The economic censuses trace their beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial

activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 manufactures census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade, and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 economic censuses were the first to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. These were the first censuses to be taken by mail, using lists of firms provided by the administrative records of other federal agencies. Since 1963, administrative records have also been used to provide basic statistics as well for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic censuses, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The Census of Construction Industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The Census of Transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks. New for 1987 are publications reporting on business establishments engaged in several transportation industries, paralleling the data on establishments in other sectors. This is part of a gradual expansion in coverage of industries previously subjected to government regulation. The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic censuses in 1972 along with the Survey of Women-Owned Businesses.

Economic censuses have also been taken in Puerto Rico since 1909, in the Virgin Islands and Guam since 1958, and in the Northern Mariana Islands since 1982.

Statistical reports from the 1982 and earlier censuses provide historical figures for the study of long-term time series, and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

AVAILABILITY OF MORE FREQUENT **ECONOMIC DATA**

While the censuses provide complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, the results of which appear in publication series such as Current Business Reports (retail and wholesale trade and service industries), the Annual Survey of Manufactures, Current Industrial Reports, and the Quarterly Financial Report. Most of these surveys, while providing more frequent

observations, yield less kind-of-business and geographic detail than the censuses. The County Business Patterns program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the Guide to the 1987 Economic Censuses and Related Statistics. More information on the methodology, procedures, and history of the censuses will be published in the History of the 1987 Economic Censuses. Contact Customer Services for information on availability.

CENSUS OF MANUFACTURES

General

This report, from the 1987 Census of Manufactures, is one of a series of 83 industry reports, each of which provides statistics for individual industries or groups of related industries. Additional separate reports will be issued for each State and the District of Columbia and for special subjects such as type of organization, distribution of sales by class of customer, concentration ratios and water use in manufacturing.

The industry reports include such statistics as number of establishments, employment, payroll, value added by manufacture, cost of materials consumed, capital expenditures, product shipments, etc.

State reports present similar statistics for each State and its important metropolitan statistical areas (MSA's), counties, and places. Selected statistical totals for "all manufacturing" have been shown in the State reports for MSA's with 250 employees or more and for counties and places with 450 employees or more.

The General Summary report will contain industry, product class, and geographic area statistics summarized in one report. The introduction to the General Summary discusses, at greater length, many of the subjects described in this introduction. For example, the General Summary text will discuss the relationship of value added by manufacture to National income by industry of origin, the changes in statistical concepts over the history of the censuses, and the valuation problems arising from intracompany transfers between manufacturing plants of a company and between manufacturing plants and sales offices and sales branches of a company.

Scope of Census and Definition of Manufacturing

The 1987 Census of Manufactures covers all establishments with one paid employee or more primarily engaged in manufacturing as defined in the 1987 Standard Industrial

Classification (SIC) Manual¹. This is the system of industrial classification developed by experts on classification in Government and private industry under the guidance of the Office of Information and Regulatory Affairs, Office of Management and Budget. This classification system is used by Government agencies as well as many organizations outside the Government.

The SIC Manual defines manufacturing as the mechanical or chemical transformation of substances or materials into new products. The assembly of component parts of products also is considered to be manufacturing if the resulting product is neither a structure nor other fixed improvement. These activities are usually carried on in plants, factories, or mills that characteristically use powerdriven machines and materials-handling equipment.

Manufacturing production is usually carried on for the wholesale market, for transfers to other plants of the same company, or to the order of industrial users rather than for direct sale to the household consumer. Some manufacturers in a few industries sell chiefly at retail to household consumers through the mail, through house-to-house routes, or through salespersons. Some activities of a service nature (enameling, engraving, etc.) are included in manufacturing when they are performed primarily for trade. They are considered nonmanufacturing when they are performed primarily to the order of the household consumer.

Relationship Between Annual Survey of Manufactures and Census of Manufactures

The Bureau of the Census conducts the annual survey of manufactures (ASM) in each of the 4 years between the censuses of manufactures. The ASM is a probability-based sample of approximately 56,000 establishments and collects the same industry statistics (employment, payroll, value of shipments, etc.) as the census of manufactures. In addition to collecting the information normally requested on the census form, the establishments in the ASM sample are requested to supply information on assets, capital expenditures, retirements, depreciation, rental payments, supplemental labor costs, costs of purchased services, and foreign content of materials consumed. Except for supplemental labor costs, the extra ASM items are collected only in census years.

Establishment Basis of Reporting

The census of manufactures is conducted on an establishment basis. A company operating at more than one location is required to file a separate report for each location. The ASM also is conducted on an establishment basis, but separate reports are filed for just those establishments selected in the sample. Companies engaged in distinctly different lines of activity at one location are requested to submit separate reports if the plant records permit such a separation and if the activities are substantial in size.

In 1987, as in earlier years, a minimum size limit was set for inclusion of establishments in the census. All establishments employing one person or more at any time during the census year are included. The same size limitation has applied since 1947 in censuses and annual surveys of manufactures. In the 1939 and earlier censuses, establishments with less than \$5,000 value of products were excluded. The change in the minimum size limit in 1947 does not appreciably affect the historical comparability of the census figures except for data on number of establishments for a few industries. This report excludes information for separately operated administrative offices, warehouses, garages, and other auxiliary units that service manufacturing establishments of the same company (see Auxiliaries).

Manufacturing Universe and Census Report Forms

The 1987 Census of Manufactures universe includes approximately 350,000 establishments. The amounts of information requested from manufacturing establishments were dependent upon a number of factors. The more important considerations were the size of the company and whether it was included in the annual survey of manufactures. The methods of obtaining information for the various subsets of the universe to arrive at the aggregate figures shown in the publication are described below:

1. Small Single-Establishment Companies Not Sent a Report Form

In the 1987 Census of Manufactures, approximately 150,000 small single-establishment companies were excused from filing reports. Selection of these small establishments was done on an industry-by-industry basis and was based on annual payroll and total shipments data as well as on the industry classification codes contained in the administrative records of Federal agencies. The cutoffs were selected so that these administrative-records cases would account for no more than 3 percent of the value of shipments for all manufacturing. Generally, all single-establishment companies with less than five employees were excused, while all establishments with more than 20 employees were mailed forms.

Information on the physical location of the establishment, as well as information on payrolls, receipts (shipments), and industry classification, was obtained from the administrative records of other Federal agencies under special arrangements, which safeguarded their confidentiality. Estimates of data for these small establishments were developed using industry averages in conjunction with the administrative information. The value of shipments and cost of materials

¹Standard Industrial Classification Manual: 1987: For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402, Stock No. 041-001-00314-2.

were not distributed among specific products and materials for these establishments but were included in the product and material "not specified by kind" (n.s.k.) categories.

The industry classification codes included in the administrative-records files were assigned on the basis of brief descriptions of the general activity of the establishment. As a result, an indeterminate number of establishments were erroneously coded at the four-digit SIC level. This was especially true whenever there was a relatively fine line of demarcation between industries or between manufacturing and nonmanufacturing activity.

Sometimes these administrative-record cases were only given a two- or three-digit SIC group. For the 1987 Census of Manufactures, these establishments were sent a separate classification form, which requested information on the products and services of the establishment. This form was used to code many of these establishments to the four-digit SIC level. Establishments that did not return the classification form were coded later to those four-digit SIC industries identified as "not elsewhere classified" (n.e.c.) within the given two- or three-digit industry groups.

As a result of these situations, a number of small establishments may have been misclassified by industry. However, such possible misclassification has no significant effect on the statistics other than on the number of companies and establishments.

The total establishment count for individual industries should be viewed as an approximation rather than a precise measurement. The counts for establishments with 20 employees or more are far more reliable than the count of total number of establishments.

2. Establishments Sent a Report Form

The 200,000 establishments covered in the mail canvass were divided into three groups:

a. ASM sample establishments—This group consisted of approximately 56,000 establishments covering all the units of large manufacturing establishments as well as a sample of the medium and smaller establishments. The probability of selection was proportionate to size (see appendix, Annual Survey of Manufactures).

In a census of manufactures year, the ASM report form (MA-1000) replaces the first page of the regular census form for those establishments included in the ASM. In addition to information on employment, payroll, and other items normally requested on the regular census form, establishments in the ASM sample were requested to supply information on assets, capital expenditures, retirements, depreciation, rental payments, supplemental labor costs, and costs of purchased services. See appendix A, section 2, for an explanation of these items.

The census part of the report form is one of approximately 200 versions containing product, material, and special inquiries. The diversity of manufacturing activities necessitated the use of these many forms to canvass the 459 manufacturing industries. Each form was developed for a group of related industries.

Appearing on each form was a list of products primary to the group of related industries as well as secondary products and miscellaneous services that establishments classified in these industries were likely to be performing. Respondents were requested to identify the products, the value of each product, and, in a large number of cases, the quantity of the product shipped during the survey year. Space also was provided for the respondent to describe products not specifically identified on the form.

The report form also contained a materials-consumed inquiry, which varied from form to form depending on the industries being canvassed. The respondents were asked to review a list of materials generally used in their production processes. From this list, each establishment was requested to identify those materials consumed during the survey year, the cost of each, and, in certain cases, the quantity consumed. Once again, space was provided for the respondent to describe significant material not identified on the form.

Finally, a wide variety of special inquiries was included to measure activities peculiar to a given industry, such as operations performed and equipment used.

- b. Large and medium establishments (non-ASM)—Approximately 84,000 establishments were included in this group. A variable cutoff, based on administrative-records payroll data and determined on an industry-by-industry basis, was used to select those establishments that were to receive one of the approximately 200 census of manufactures regular forms. The first page, requesting establishment data for items such as employment and payroll, was standard but did not contain the detailed statistics included on the ASM form. The product, material, and special inquiry sections supplied were based on the historical industry classification of the establishment.
- c. Small single-establishment companies (non-ASM)—This group consisted of approximately 60,000 establishments. For those industries where application of the variable cutoff for administrative-records cases resulted in a large number of small establishments being included in the mail canvass, an abbreviated or "short" form was used. These establishments received one of the approximately 80 versions of the short form, which requested

summary product and material data and totals but no details on employment, payrolls, cost of materials, inventories, and capital expenditures.

Use of the short form has no adverse effect on published totals for the industry statistics; the same data were collected on the short form as on the long form. However, detailed information on materials consumed was not collected on the short form; thus its use would increase the value of the n.s.k. categories.

Auxiliaries

In this industry report, the data on employment and payroll are limited to operating manufacturing establishments. The census report form filed for auxiliaries (ES-9200) requested a description of the activity of the establishments serviced. However, the manufacturing auxiliaries were coded only to the two-digit major group of the establishments they served; whereas, the operating establishments were coded to a four-digit manufacturing industry. Data for the approximately 10,000 separately operated auxiliaries are included in the geographic area series and in a report issued as part of the 1987 Enterprise Statistics Survey.

Auxiliaries are establishments whose employees are primarily engaged in performing supporting services for other establishments of the same company, rather than for the general public or for other business firms. They can be at different locations from the establishments served or at the same location as one of those establishments but not operating as an integral part thereof and serving two establishments or more. Where auxiliary operations are conducted at the same location as the manufacturing operation and operate as an integral part thereof, they usually are included in the report for the operating manufacturing establishment.

Included in the broad category of auxiliaries are administrative offices. Employees in administrative offices are concerned with the general management of multiestablishment companies, i.e., with the general supervision and control of two units or more, such as manufacturing plants, mines, sales branches, or stores. The functions of these employees may include (1) program planning, including sales research and coordination of purchasing, production, and distribution; (2) company purchasing, including general contracts and purchasing methods; (3) company financial policy and accounting; (4) general engineering, including design of product machinery and equipment, and direction of engineering effort conducted at the individual operation locations; (5) direction of company personnel matters; and (6) legal and patent matters.

Other types of auxiliaries serving the plants or central management of the company include purchasing offices, sales promotion offices, research and development organizations, etc.

Industry Classification of Establishments

Each of the establishments covered in the census was classified in 1 of 459 manufacturing industries in accordance with the industry definitions in the 1987 SIC Manual. The 1987 edition of this manual represents a major revision for manufacturing industries from the 1972 edition and its 1977 supplement. Appendix A of the 1987 Manual notes the revisions in the four-digit industry levels between 1972/77 and 1987.

An industry is generally defined as a group of establishments producing the same product or a closely related group of products. The product groupings from which industry classifications are derived are based on considerations such as similarity of manufacturing processes, types of materials used, types of customers, and the like. The resulting group of establishments must be significant in terms of number, value added by manufacture, value of shipments, and number of employees. The system operates in such a way that the definitions progressively become narrower with successive additions of numerical digits. For 1987, there are 20 major groups (two-digit SIC), 139 industry groups (three-digit SIC), and 459 industries (four-digit SIC). This represents an expansion of four-digit industries from 452 in 1972/77 and a reduction of threedigit groups from 143 in 1972/77. Product classes and products of the manufacturing industries have been assigned codes based on the industry from which they originate. There are about 11,000 products identified by a seven-digit code. The seven-digit products are considered the primary products of the industry with the same four digits.

Accordingly, an establishment is usually classified in a particular industry on the basis of its major activity during a particular year, i.e., production of the products primary to that industry exceeds, in value, production of the products primary to any other single industry. In a few instances, however, the industry classification of an establishment is not only determined by the products it makes but also by the process employed in operations. Refining of nonferrous metals from ore or rolling and drawing of nonferrous metals (processes which involve heavy capitalization in specialized equipment) would be classified according to the process used during a census year. These establishments then would be "frozen" in that industry during the following ASM years.

In either a census or ASM year, establishments included in the ASM sample with certainty weight, other than those involved with heavily capitalized activities described above, are reclassified by industry only if the change in the primary activity from the prior year is significant or the change has occurred for 2 successive years. This procedure prevents reclassification when there are minor shifts in product mix.

In ASM years, establishments included in the ASM sample with noncertainty weight are not shifted from one industry classification to another. They are retained in the industry where they were classified in the base census year (see appendix, Annual Survey of Manufactures).

However, in the following census year, these ASM plants are allowed to shift from one industry to another.

The result of these rules covering the switching of plants from one industry classification to another is that, at the aggregate level, some industries comprise different mixes of establishments between survey years, and establishment data for such industry statistics as employment and payroll may be tabulated in different industries between survey years. Hence, comparisons between prior-year and current-year published totals, particularly at the four-digit SIC level, should be viewed with caution. This is particularly true for the comparison between the data shown for a census year versus the data shown for the previous ASM year.

As previously noted, the small establishments that may have been misclassified by industry are usually administrativerecord cases whose industry codes were assigned on the basis of incomplete descriptions of the general activity of the establishment. Such possible misclassifications have no significant effect on the statistics other than on the number of companies and establishments.

While some establishments produce only the primary products of the industry in which they are classified, all establishments of an industry rarely specialize to this extent. The industry statistics (employment, inventories, value added by manufacture, total value of shipments including resales and miscellaneous receipts, etc.) shown in tables 1a through 5a, therefore, reflect not only the primary activities of the establishments in that industry but also their secondary activities. The product statistics in table 6a represent the output of all establishments whether or not they are classified in the same industry as the product. For this reason, in relating the industry statistics, especially the value of shipments to the product statistics, the composition of the industry's output shown in table 5b should be considered.

The extent to which industry and product statistics may be matched with each other is measured by two ratios which are computed from the figures shown in table 5b. The first of these ratios, called the primary product specialization ratio, measures the proportion of product shipments (both primary and secondary) of the establishments classified in the industry represented by the primary products of those establishments. The second ratio, called the coverage ratio, is the proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

However, establishments making products falling into the same industry category may use a variety of processes and materials to produce them. Also, the same industry classification (based on end products) may include both establishments that are highly integrated and those that put only the finishing touches on an already highly fabricated item. For example, the refrigeration equipment industry includes instances of almost complete integration (production of the compressor, condensing unit, electric motor, casting, stamping of the case, and final assembly) all

carried on at one plant. On the other hand, the condensing unit, the motor, and the case may be purchased and only assembled into the finished product.

In some instances, separate industry categories have been established for integrated and nonintegrated establishments. For other industries, the census provides separate statistics on the production of intermediate commodities made and used in the producing plant. For some industries characterized by many plants of the same company, separate figures on interplant transfers of products usually are shown.

Differences in the integration of production processes, types of operations, and alternatives in types of materials used should be considered when relating the industry statistics (employment, payrolls, value added, etc.) to the product and material data.

Value of Shipments for the Industry Compared With Value of Product Shipments

This report shows value of shipments data for industries and products. In tables 1a through 5a, these data represent the total value of shipments of all establishments classified in a particular industry. The data include the shipments of the products classified in the industry (primary to the industry), products classified in other industries (secondary to the industry), and miscellaneous receipts (repair work, sale of scrap, research and development, installation receipts, and resales). Value of product shipments shown in table 6a represents the total value of all products shipped that are classified as primary to an industry.

CENSUS DISCLOSURE RULES

In accordance with Federal law governing census reports, no data are published that would disclose the data for an individual establishment or company. However, the number of establishments classified in a specific industry is not considered a disclosure, so this information may be released even though other information is withheld.

The disclosure analysis for the industry statistics in tables 1a through 5a of this report is based on the total value of shipments. When the total value of shipments cannot be shown without disclosing information for individual companies, the complete line is suppressed. However, the suppressed data are included in higher-level totals. Additional disclosure analysis is performed for new capital expenditures that can be suppressed even though value of shipments data are publishable.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1987 Census of Manufactures may be obtained on computer tape or in tabular form. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential

information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications.

Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Industry Division, Bureau of the Census, Washington, DC 20233.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

_	Represents zero.
(D)	Withheld to avoid disclosing data for individual
	companies; data are included in higher level
	totals.
(NA)	Not available.
(NC)	Not comparable.
(S)	Withheld because estimate did not meet pub-
	lication standards.
(X)	Not applicable.
(Z)	Less than half the unit shown.
do	Ditto.

n.e.c.	Not elsewhere classified.
n.s.k.	Not specified by kind.
pt.	Part.
r	Revised.
SIC	Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, doz, bbl, and s tons, are used in the customary sense.

CONTACTS FOR DATA USERS

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Durables	Kenneth Hansen	(301) 763-7304
Nondurables	Michael Zampogna	(301) 763-2510
Current Indus- trial Reports		
Durables	Malcolm Bernhardt	(301) 763-2518
Nondurables	Thomas Flood	(301) 763-5911
Import/Export Publications	Foreign Trade Division	(301) 763-5140
Industry Analysis and Forecasts	International Trade Administration	(202) 377-4356

Users' Guide for Locating Statistics in This Report by Table Number

For explanation of terms, see appendixes

			Four-dig	it industry s	statistics				re-digit prod ren-digit pr		
ltem	Histori- cal	Operat- ing ratios	By geo- graphic area	Sum- mary and supple- mental	By employ- ment size	By industry and product class specialization	Materials con- sumed by kind	Industry- product analysis	Product ship- ments	Product class by geo- graphic area	Historical product class
Number of companies	1a			3a					*6a		
Number of establishments	1a		2	3a	4	5a					
Employment and payroll: Number of employees Payroll Supplemental labor costs Production workers Production- worker hours Production- worker wages	1a 1a 1a 1a 1a	1b 1b 1b 1b	2 2 2 2 2	3a 3a 3a 3a 3a 3a	4 4 4 4	5a 5a 5a 5a 5a					
Shipments, cost of materials, and value added: Value of shipments (four-digit)	1a	1b	2	3a	4	5a		5b	6a	6b	6c
(seven-digit) Value added by manufacture Cost of materials Fuels and electric energy Materials consumed by kind	1a 1a	1b 1b	2 2	3a 3a 3a	4 4	5a 5a	7		6а		
Inventories: Total, end of year By stage of fabrication Capital expenditures, assets,	1a			3a 3a	4						
rental payments, and purchased services: New capital expenditures. Used plant and equipment expenditures. Gross assets Depreciation Retirements of buildings and machinery. Rental payments Foreign content of materials consumed Purchased services.	1a		2	3b 3b 3b 3b 3b 3c	4	5a					
Ratios: Specialization Coverage	1a 1a			3a 3a				5b 5b			

^{*}Number of companies with shipments of more than \$100 thousand.

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DESCRIPTION OF INDUSTRIES AND SUMMARY OF FINDINGS

This report shows 1987 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC code and title

2391	Curtains and Draperies
2392	Housefurnishings, N.E.C.
2393	Textile Bags
2394	Canvas and Related Products
2395	Pleating and Stitching
2396	Automotive and Apparel Trimmings
2397	Schiffli Machine Embroideries
2399	Fabricated Textile Products, N.E.C.

The industry statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments but also their activities in the manufacture of secondary products as well as their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account when comparing industry statistics (tables 1 through 5a) with product statistics (table 6) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5b, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Small single-establishment companies with up to 20 employees (cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other Federal agencies. The remaining statistics were developed from industry averages.

Establishment data were tabulated based on industry definitions included in the 1987 Standard Industrial Classification (SIC) Manual¹. The 1987 edition represents a major revision for manufacturing industries from the 1972 edition and its 1977 supplement. In addition to the 1987

¹Standard Industrial Classification Manual: 1987. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

SIC revision, changes were made to the product class (five-digit) and product code (seven-digit) categories. The product class and product code comparability between the 1987 and 1982 censuses is shown in the appendixes. These appendixes present, in tabular form, the linkage from 1987 to 1982.

All dollar figures included in this report are at prices current for the year specified and, therefore, unadjusted for changes in price levels. Consequently, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

INDUSTRY 2391, CURTAINS AND DRAPERIES

This industry is made up of establishments primarily engaged in manufacturing curtains and draperies from purchased materials. Establishments primarily engaged in manufacturing lace curtains on lace machines are classified in industry 2258 and those manufacturing shower curtains are classified in industry 2392.

The 1987 definition of this industry is the same as that used in the 1972/7 Standard Industrial Classification (SIC) system. The SIC number and title also are the same.

In the 1987 Census of Manufactures, Industry 2391, Curtains and Draperies, had employment of 27.1 thousand. The employment figure was 12 percent above the 24.1 thousand reported in 1982. Compared with 1986, employment decreased 3 percent. The 1986 data are based on the Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses. The leading States in employment in 1987 were North Carolina, California, Massachusetts, and New York, accounting for 49 percent of the industry's employment. These same States were the leaders in 1982, when they accounted for 48 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$1.5 billion.

Establishments in virtually all industries ship secondary products as well as products primary to the industry to which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2391 shipped \$1.3 billion of curtains and draperies products considered primary to the industry, \$79.4 million of secondary products, and had \$157.3 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in the industry was 94 percent (specialization ratio). In 1982, the specialization ratio also was 94 percent.

Establishments in this industry also accounted for 93 percent of products considered primary to the industry no matter where they actually were produced (coverage ratio). In 1982, the coverage ratio was 91 percent. The products primary to industry 2391, no matter in what industry they were produced, appear in table 6a and aggregate to \$1.4 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and electric energy used by establishments classified in the curtains and draperies industry amounted to \$823.6 million. Data on specific material consumed appear in table 7.

Single-establishment companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 20 percent of total value of shipments.

INDUSTRY 2392, HOUSEFURNISHINGS, N.E.C.

This industry is made up of establishments primarily engaged in manufacturing housefurnishings, such as blankets, bedspreads, sheets, tablecloths, towels, and shower curtains from purchased materials. Establishments primarily engaged in manufacturing curtains and draperies are classified in industry 2391. Certain products primary to industry 2392 also are primary to industries 2211, 2221, and 2231. Establishments engaged in producing housefurnishings primary of fabric woven at the same establishment are classified in industries 2211, 2221, 2231, or 2299 according to fiber. Products of this industry also are collected in the Current Industrial Report MQ-23X, Sheets, Pillowcases, and Towels.

The 1987 definition of this industry is the same as that used in the 1972/7 Standard Industrial Classification (SIC) system. The SIC number and title also are the same.

In the 1987 Census of Manufactures, Industry 2392, Housefurnishings, N.E.C., had employment of 50.5 thousand. The employment figure was 2 percent above the 49.3 thousand reported in 1982. Compared with 1986, employment increased 4 percent. The 1986 data are based on the Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses. The leading States in employment in 1987 were California, New York, Georgia, and North Carolina. This represents a shift from 1982 when New York, North Carolina, South Carolina, and California were the leading States in employment.

The total value of shipments for establishments classified in this industry was \$4.5 billion.

Establishments in virtually all industries ship secondary products as well as products primary to the industry to which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry

2392 shipped \$4.0 billion of housefurnishings, n.e.c., products considered primary to the industry, \$265.5 million of secondary products, and had \$265.0 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in the industry was 94 percent (specialization ratio). In 1982, the specialization ratio was 92 percent.

Establishments in this industry also accounted for 90 percent of products considered primary to the industry no matter where they actually were produced (coverage ratio). In 1982, the coverage ratio was 87 percent. The products primary to industry 2392, no matter in what industry they were produced, appear in table 6a and aggregate to \$4.4 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and electric energy used by establishments classified in the housefurnishings, n.e.c., industry amounted to \$2.8 billion. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 13 percent of total value of shipments.

INDUSTRY 2393, TEXTILE BAGS

This industry is made up of establishments primarily engaged in manufacturing shipping and other industrial bags from purchased fabrics. Establishments primarily engaged in manufacturing laundry, wardrobe, shoe, and other textile housefurnishing bags are classified in industry 2392. Establishments primarily engaged in manufacturing plastics bags are classified in industry 2673 and those manufacturing luggage are classified in industry 3161.

The 1987 definition of this industry is the same as that used in the 1972/7 Standard Industrial Classification (SIC) system. The SIC number and title also are the same.

In the 1987 Census of Manufactures, Industry 2393, Textile Bags, had employment of 8.8 thousand. The employment figure was 14 percent above the 7.7 thousand reported in 1982. Compared with 1986, employment increased 28 percent. The 1986 data are based on the Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses. The leading States in employment in 1987 were California, New Jersey, North Carolina, and Pennsylvania. This represents a shift from 1982 when California, Georgia, New Jersey, and New York were the leading States in employment.

The total value of shipments for establishments classified in this industry was \$571.5 million.

Establishments in virtually all industries ship secondary products as well as products primary to the industry to which they are classified and have some miscellaneous

receipts, such as resales and contract receipts. Industry 2393 shipped \$473.8 million of textile bags products considered primary to the industry, \$46.1 million of secondary products, and had \$51.6 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in the industry was 91 percent (specialization ratio). In 1982, the specialization ratio was 88 percent.

Establishments in this industry also accounted for 87 percent of products considered primary to the industry no matter where they actually were produced (coverage ratio). In 1982, the coverage ratio was 83 percent. The products primary to industry 2393, no matter in what industry they were produced, appear in table 6a and aggregate to \$544.2 million. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and electric energy used by establishments classified in the textile bags industry amounted to \$336.4 million. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 14 percent of total value of shipments.

INDUSTRY 2394, CANVAS AND RELATED PRODUCTS

This industry is made up of establishments primarily engaged in manufacturing awnings, tents, and related products from purchased fabrics. Establishments primarily engaged in manufacturing canvas bags are classified in industry 2393.

The 1987 definition of this industry is the same as that used in the 1972/7 Standard Industrial Classification (SIC) system. The SIC number and title also are the same.

In the 1987 Census of Manufactures, Industry 2394, Canvas and Related Products, had employment of 16.7 thousand. The employment figure was 13 percent above the 14.8 thousand reported in 1982. Compared with 1986, employment decreased 5 percent. The 1986 data are based on the Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses. The leading States in employment in 1987 were Florida, California, New York, and Texas. These same States were the leaders in 1982 in employment.

The total value of shipments for establishments classified in this industry was \$1.1 billion.

Establishments in virtually all industries ship secondary products as well as products primary to the industry to which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry

2394 shipped \$941.0 million of canvas and related products products considered primary to the industry, \$55.6 million of secondary products, and had \$68.2 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in the industry was 94 percent (specialization ratio). In 1982, the specialization ratio also was 94 percent.

Establishments in this industry also accounted for 96 percent of products considered primary to the industry no matter where they actually were produced (coverage ratio). In 1982, the coverage ratio was 93 percent. The products primary to industry 2394, no matter in what industry they were produced, appear in table 6a and aggregate to \$981.7 million. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and electric energy used by establishments classified in the canvas and related products industry amounted to \$525.0 million. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 24 percent of total value of shipments.

INDUSTRY 2395, PLEATING AND STITCHING

This industry is made up of establishments primarily engaged in pleating, decorative and novelty stitching and tucking for the trade. Establishments primarily engaged in performing similar services for individuals are classified in service industries. Establishments primarily engaged in manufacturing trimmings are classified in industry 2396.

The 1987 definition of this industry has been revised from that used in the 1972 Standard Industrial Classification (SIC) manual. However, the SIC number and title are unchanged. Printing on garments and accessories, including silk screen printing (1982 product code 23951 34); and stamped art goods for embroidering, punching, and needlework (1982 product code 23951 37) were moved to Industry 2396, Automotive and Apparel Trimmings. The effect of the revisions on the data is summarized in tables 1c-1 and 1c-2. During the 1987 processing, each establishment was classified according to both the old and new SIC. Table 1c-1 shows the distribution of the new industry among the old SIC classifications. Table 1c-2 shows the distribution of the old SIC-based industries among the new SIC classifications.

In the 1987 Census of Manufactures, Industry 2395, Pleating and Stitching, had employment of 14.1 thousand. The leading States in employment in 1987 were California, North Carolina, New York, and New Jersey, accounting for 60 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$728.0 million.

Establishments in virtually all industries ship secondary products as well as products primary to the industry to which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2395 shipped \$592.3 million of pleating and stitching products considered primary to the industry, \$110.4 million of secondary products, and had \$25.4 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in the industry was 84 percent (specialization ratio).

Establishments in this industry also accounted for 97 percent of products considered primary to the industry no matter where they actually were produced (coverage ratio). The products primary to industry 2395, no matter in what industry they were produced, appear in table 6a and aggregate to \$611.0 million. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and electric energy used by establishments classified in the pleating and stitching industry amounted to \$346.1 million.

Single-establishment companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 30 percent of total value of shipments.

INDUSTRY 2396, AUTOMOTIVE AND APPAREL TRIMMINGS

This industry is made up of establishments primarily engaged in manufacturing automotive trimmings, apparel findings, and related products. It also includes establishments primarily engaged in printing and stamping on fabric articles.

The 1987 definition of this industry has been revised from that used in the 1972 Standard Industrial Classification (SIC) manual. However, the SIC number and title are unchanged. 1972 SIC-based product codes 23951 34 and 23951 37 were moved to industry 2396 from industry 2395. These products now appear as codes 23964 33 and 23964 37. The effect of the revisions on the data is summarized in tables 1c–1 and 1c–2. During the 1987 processing, each establishment was classified according to both the old and new SIC. Table 1c–1 shows the distribution of the new industry among the old SIC classifications. Table 1c–2 shows the distribution of the old SIC-based industries among the new SIC classifications.

In the 1987 Census of Manufactures, Industry 2396, Automotive and Apparel Trimmings, had employment of 44.8 thousand. The leading States in employment in 1987 were Michigan, New York, California, and Ohio.

The total value of shipments for establishments classified in this industry was \$4.6 billion.

Establishments in virtually all industries ship secondary products as well as products primary to the industry to which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2396 shipped \$4.4 billion of automotive and apparel trimmings products considered primary to the industry, \$58.8 million of secondary products, and had \$180.9 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in the industry was 99 percent (specialization ratio).

Establishments in this industry also accounted for 96 percent of products considered primary to the industry no matter where they actually were produced (coverage ratio). The products primary to industry 2396, no matter in what industry they were produced, appear in table 6a and aggregate to \$4.6 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and electric energy used by establishments classified in the automotive and apparel trimmings industry amounted to \$2.6 billion. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 9 percent of total value of shipments.

INDUSTRY 2397, SCHIFFLI MACHINE EMBROIDERIES

This industry is made up of establishments primarily engaged in manufacturing Schiffli machine embroideries.

The 1987 definition of this industry is the same as that used in the 1972/7 Standard Industrial Classification (SIC) system. The SIC number and title also are the same.

In the 1987 Census of Manufactures, Industry 2397, Schiffli Machine Embroideries, had employment of 5.9 thousand. The employment figure was 16 percent below the 7.0 thousand reported in 1982. Compared with 1986, employment increased 11 percent. The 1986 data are based on the Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses. The leading State in employment in 1987 was New Jersey, accounting for 36 percent of the industry's employment. This same State was the leader in 1982, when it accounted for 49 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$302.0 million.

Establishments in virtually all industries ship secondary products as well as products primary to the industry to which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2397 shipped \$246.8 million of Schiffli machine embroideries products considered primary to the industry, \$14.6 million of secondary products, and had \$40.6 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in the industry was 94 percent (specialization ratio). In 1982, the specialization ratio was 95 percent.

Establishments in this industry also accounted for 98 percent of products considered primary to the industry no matter where they actually were produced (coverage ratio). In 1982, the coverage ratio was 96 percent. The products primary to industry 2397, no matter in what industry they were produced, appear in table 6a and aggregate to \$251.1 million. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and electric energy used by establishments classified in the Schiffli machine embroideries industry amounted to \$137.6 million.

Single-establishment companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 20 percent of total value of shipments.

INDUSTRY 2399, FABRICATED TEXTILE PRODUCTS, N.E.C.

This industry is made up of establishments primarily engaged in manufacturing fabricated textile products, not elsewhere classified. Certain products primary to industry 2399 also are primary to industry 2211.

The 1987 definition of this industry is the same as that used in the 1972/7 Standard Industrial Classification (SIC) system. The SIC number and title also are the same.

In the 1987 Census of Manufactures, Industry 2399, Fabricated Textile Products, N.E.C., had employment of 30.5 thousand. The employment figure was 22 percent

above the 25.1 thousand reported in 1982. Compared with 1986, employment increased 19 percent. The 1986 data are based on the Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses. The leading States in employment in 1987 were California, Georgia, New York, and Alabama, accounting for 37 percent of the industry's employment. This represents a shift from 1982 when California, New York, Georgia, and New Jersey accounted for 33 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$2.4 billion.

Establishments in virtually all industries ship secondary products as well as products primary to the industry to which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2399 shipped \$2.2 billion of fabricated textile products, n.e.c., products considered primary to the industry, \$94.5 million of secondary products, and had \$123.5 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in the industry was 96 percent (specialization ratio). In 1982, the specialization ratio was 93 percent.

Establishments in this industry also accounted for 92 percent of products considered primary to the industry no matter where they actually were produced (coverage ratio). In 1982, the coverage ratio was 91 percent. The products primary to industry 2399, no matter in what industry they were produced, appear in table 6a and aggregate to \$2.4 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and electric energy used by establishments classified in the fabricated textile products, n.e.c. industry amounted to \$1.4 billion. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 13 percent of total value of shipments.

Table 1a-1. Historical Statistics for the Industry (1987 Basis): 1987 and Earlier Years

[Industries with only 1987 data are revised for 1987. Table 1a-2 contains historical data on the old SIC basis. See table 1c-1 for composition of the new industry on the old SIC basis. Excludes

data for auxiliarie	only 1987 data are revised for 1987. Table 1a-2 contains historical data on the old SIC basis. See table 1c-1 for composition of the new industry on the old SIC basis. Excludes aries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]														
		All establi	ishments ³	All emp	oloyees	Pro	duction wor	kers				Manu	F-1-4	Rat	ios
Year¹	Com- panies ² (no.)	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufac- ture ⁴ (million dollars)	Cost of materials ⁵ (million dollars)	Value of shipments (million dollars)	New capital expend- itures ⁶ (million dollars)	End-of- year inven- tories ⁴ (million dollars)	Spe- ciali- zation ⁷ (per- cent)	Cover- age ⁸ (per- cent)
					·	INDU	STRY 239	1, CURTA	INS AND DRA	APERIES					
1987 Census 1986 ASM 1985 ASM 1984 ASM 1983 ASM	1 221 (NA) (NA) (NA) (NA)	1 250 (NA) (NA) (NA) (NA)	239 (NA) (NA) (NA) (NA)	27.1 27.8 25.6 25.2 24.0	342.7 323.5 300.3 272.4 232.5	21.4 22.6 20.5 21.0 19.8	39.3 43.6 38.4 35.6 34.4	230.0 226.1 201.7 193.3 168.2	720.1 685.6 589.1 562.0 462.0	823.6 852.9 785.4 727.4 644.8	1 539.6 1 530.7 1 379.0 1 282.7 1 098.0	14.9 10.4 6.8 7.5 4.0	203.4 196.6 175.2 175.3 166.6	94 (NA) (NA) (NA) (NA)	93 (NA) (NA) (NA) (NA)
1982 Census 1981 ASM ⁹ 1980 ASM ⁹ 1979 ASM ⁹ 1978 ASM	1 328 (NA) (NA) (NA) (NA)	1 371 (NA) (NA) (NA) (NA)	254 (NA) (NA) (NA) (NA)	24.1 23.3 27.4 31.3 34.5	233.7 221.5 228.5 245.3 247.7	19.7 19.1 23.7 27.2 29.1	33.8 35.0 42.2 48.3 51.7	170.5 151.5 164.3 179.0 177.2	442.1 456.5 444.0 488.3 425.6	614.9 622.4 584.5 544.5 654.0	1 062.0 1 077.2 1 053.4 1 050.2 1 081.4	6.3 8.0 11.8 15.7 1015.7	159.7 169.2 158.4 149.6 160.3	94 (NA) (NA) (NA) (NA)	91 (NA) (NA) (NA) (NA)
1977 Census 1976 ASM 1975 ASM 1974 ASM 1973 ASM 1972 Census	1 650 (NA) (NA) (NA) (NA) 1 540	1 712 (NA) (NA) (NA) (NA) 1 593	324 (NA) (NA) (NA) (NA) (NA) 352	31.7 24.2 25.6 26.8 35.2 33.9	224.7 173.4 164.9 151.3 177.8 167.1	27.2 21.9 23.0 24.1 30.9 29.5	47.9 39.0 41.9 41.9 56.5 54.9	163.6 123.6 118.3 109.5 133.3 124.7	407.3 329.2 280.1 285.5 313.7 302.3	605.5 468.5 446.7 459.2 513.7 461.3	1 013.1 786.6 736.5 749.4 806.4 754.9	7.2 10.0 9.6 9.0 8.3 9.5	151.2 121.4 108.5 106.3 115.9 101.1	95 (NA) (NA) (NA) (NA) 93	93 (NA) (NA) (NA) (NA) 93
	INDUSTRY 2392, HOUSEFURNISHINGS, N.E.C.														
1987 Census 1986 ASM 1985 ASM 1984 ASM 1983 ASM	867 (NA) (NA) (NA) (NA)	944 (NA) (NA) (NA) (NA)	402 (NA) (NA) (NA) (NA)	50.5 48.5 47.5 46.8 46.8	713.7 649.6 612.2 588.4 503.8	42.8 39.8 39.3 38.7 37.8	83.8 78.6 74.5 74.3 76.9	518.6 452.2 427.4 417.8 356.4	1 759.3 1 412.0 1 405.2 1 371.5 1 307.4	2 816.4 2 622.5 2 537.4 2 383.7 2 223.5	4 530.0 4 035.7 3 951.4 3 800.0 3 440.6	44.2 43.5 38.7 57.7 25.0	737.1 608.2 600.2 577.6 639.4	94 (NA) (NA) (NA) (NA)	90 (NA) (NA) (NA) (NA)
1982 Census 1981 ASM 1980 ASM 1979 ASM 1978 ASM	880 (NA) (NA) (NA) (NA)	958 (NA) (NA) (NA) (NA)	399 (NA) (NA) (NA) (NA)	49.3 43.2 44.0 46.4 50.2	518.2 457.3 416.7 407.5 411.4	39.8 35.6 36.7 38.8 42.4	77.6 68.9 71.0 74.2 79.1	369.0 314.5 299.1 293.3 296.4	1 249.0 1 127.2 969.2 916.4 827.3	1 994.3 1 750.8 1 641.8 1 616.5 1 597.1	3 262.2 2 846.3 2 600.1 2 502.4 2 417.6	38.8 18.8 16.4 27.9 28.1	581.5 507.0 464.9 455.5 401.4	92 (NA) (NA) (NA) (NA)	87 (NA) (NA) (NA) (NA)
1977 Census 1976 ASM 1975 ASM 1974 ASM 1973 ASM 1972 Census	980 (NA) (NA) (NA) (NA) 1 058	1 051 (NA) (NA) (NA) (NA) 1 111	403 (NA) (NA) (NA) (NA) (NA)	47.5 43.8 40.8 46.8 50.7 50.3	366.4 316.1 284.7 288.2 296.4 281.9	39.8 36.1 33.7 38.9 42.9 42.2	75.4 68.2 64.7 74.0 82.3 82.5	260.0 221.4 199.3 204.2 210.6 194.0	782.9 712.0 621.6 678.5 670.5 585.2	1 541.4 1 261.9 1 075.3 987.3 992.5 961.0	2 294.0 1 954.5 1 703.6 1 649.6 1 646.5 1 526.9	26.9 31.5 30.5 1022.6 22.7 29.9	393.0 322.5 300.0 293.8 285.0 250.1	89 (NA) (NA) (NA) (NA) (NA)	87 (NA) (NA) (NA) (NA) 84
							INDUST	RY 2393, T	EXTILE BAG	iS					
1987 Census 1986 ASM 1985 ASM 1984 ASM 1983 ASM	255 (NA) (NA) (NA) (NA)	262 (NA) (NA) (NA) (NA)	116 (NA) (NA) (NA) (NA)	8.8 6.9 7.1 7.4 8.2	118.0 86.4 87.9 92.6 94.6	7.3 5.8 6.0 6.3 7.0	13.5 10.6 10.5 11.9 13.0	76.3 56.7 58.8 64.0 67.3	239.9 207.3 219.0 209.4 175.4	336.4 296.3 291.6 279.0 276.3	571.5 499.8 502.0 487.9 455.7	5.8 4.2 4.6 5.4 5.3	107.5 88.4 83.5 69.9 77.0	91 (NA) (NA) (NA) (NA)	87 (NA) (NA) (NA) (NA)
1982 Census 1981 ASM ⁹ 1980 ASM ⁹ 1979 ASM 1978 ASM	233 (NA) (NA) (NA) (NA)	249 (NA) (NA) (NA) (NA)	108 (NA) (NA) (NA) (NA)	7.7 6.6 6.6 7.3 8.9	89.5 71.0 64.0 63.5 73.6	6.5 5.7 5.6 6.3 7.3	12.2 11.1 10.2 11.7 14.1	64.8 52.5 45.1 44.5 54.7	167.8 157.5 138.6 157.1 146.0	252.7 239.4 205.1 189.6 219.2	421.8 396.7 346.9 345.3 362.0	5.9 6.5 16.3 107.7 102.5	73.0 67.2 62.3 63.5 63.4	88 (NA) (NA) (NA) (NA)	83 (NA) (NA) (NA) (NA)
1977 Census 1976 ASM ⁹ 1975 ASM ⁹ 1974 ASM 1973 ASM 1972 Census	211 (NA) (NA) (NA) (NA) (NA)	228 (NA) (NA) (NA) (NA) (NA)	90 (NA) (NA) (NA) (NA) (NA)	8.2 5.8 5.8 7.8 9.2 7.9	66.7 52.9 51.0 56.6 50.7 44.0	6.8 4.6 4.7 6.6 7.9 6.7	12.9 9.0 9.3 12.6 14.2 12.7	46.8 34.2 33.2 39.4 36.0 31.4	122.2 128.6 113.8 133.9 90.6 74.5	200.5 177.7 170.1 233.1 215.7 182.2	321.8 306.8 287.9 362.8 303.6 255.1	5.8 6.3 6.4 7.2 5.3 5.5	59.4 48.6 47.9 67.3 49.9 38.6	82 (NA) (NA) (NA) (NA) (NA)	84 (NA) (NA) (NA) (NA)
		I			ı	NDUSTR	Y 2394, C	ANVAS AN	ND RELATED	PRODUCTS					
1987 Census 1986 ASM 1985 ASM 1984 ASM 1983 ASM	1 261 (NA) (NA) (NA) (NA)	1 273 (NA) (NA) (NA) (NA) (NA)	196 (NA) (NA) (NA) (NA)	16.7 17.5 17.2 16.9 15.2	270.6 263.0 247.7 230.3 197.1	12.6 13.8 13.6 12.9 11.8	23.8 27.9 29.4 28.2 22.5	171.3 180.8 173.8 158.9 126.5	550.0 474.3 462.2 507.1 391.8	525.0 536.4 546.6 468.3 409.7	1 064.7 1 019.9 1 013.8 953.0 791.9	20.1 23.7 19.8 20.8 12.6	170.4 155.3 174.8 188.3 146.7	94 (NA) (NA) (NA) (NA)	96 (NA) (NA) (NA) (NA)
1982 Census 1981 ASM 1980 ASM 1979 ASM 1978 ASM	1 108 (NA) (NA) (NA) (NA)	1 128 (NA) (NA) (NA) (NA)	162 (NA) (NA) (NA) (NA)	14.8 12.5 11.1 12.0 15.4	181.2 159.5 130.1 132.4 140.2	11.3 10.0 8.6 9.5 12.4	21.1 19.3 17.6 18.8 21.9	117.8 101.9 80.6 83.2 91.6	367.7 332.2 259.5 267.8 299.4	384.5 329.6 254.1 276.1 290.4	752.3 658.1 517.2 542.3 578.6	17.8 1010.7 6.6 6.6 1013.1	131.9 125.1 99.1 104.3 109.6	94 (NA) (NA) (NA) (NA)	93 (NA) (NA) (NA) (NA)
1977 Census 1976 ASM 1975 ASM 1974 ASM 1973 ASM 1972 Census	987 (NA) (NA) (NA) (NA) 845	1 003 (NA) (NA) (NA) (NA) (NA) 860	148 (NA) (NA) (NA) (NA) (NA)	13.9 10.3 10.4 11.2 14.0 12.9	121.6 82.5 74.4 80.2 84.7 75.9	11.0 8.6 8.7 9.2 11.2 10.3	19.3 15.6 15.4 16.6 20.8 19.3	75.1 54.5 50.0 52.4 53.5 49.2	237.4 146.8 133.8 136.6 154.7 130.3	254.2 161.2 146.0 155.7 170.9 151.1	486.8 301.7 284.3 293.2 321.8 276.4	8.4 6.0 107.1 103.2 3.8 4.0	101.0 65.6 59.1 72.2 80.0 68.9	93 (NA) (NA) (NA) (NA) 95	92 (NA) (NA) (NA) (NA) 88
						INDUS	TRY 239	, PLEATIN	IG AND STIT	CHING11					
1987 Census	679	685	169	14.1	174.4	11.8	20.9	120.1	396.8	346.1	728.0	12.1	113.5	84	97
					INDU	JSTRY 23	96, AUTC	MOTIVE A	ND APPARE	L TRIMMING	3S ¹¹				
1987 Census	1 534	1 560	339	44.8	1 007.9	35.8	67.5	743.4	2 053.4	2 609.8	4 633.7	115.8	401.7	99	96

Table 1a-1. Historical Statistics for the Industry (1987 Basis): 1987 and Earlier Years—Con.

[Industries with only 1987 data are revised for 1987. Table 1a-2 contains historical data on the old SIC basis. See table 1c-1 for composition of the new industry on the old SIC basis. Excludes data for auxilianes. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

		All establi	ishments ³	All em	ployees	Pro	duction wo	rkers						Rai	tios
Year	Com- panies² (no.)	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufac- ture ⁴ (million dollars)	Cost of materials ^s (million dollars)	Value of shipments (million dollars)	New capital expend- itures ⁶ (million dollars)	End-of- year inven- tories ⁴ (million dollars)	Spe- ciali- zation ⁷ (per- cent)	Cover- age ⁸ (per- cent)
						INDUSTR	Y 2397, S	CHIFFLI M	IACHINE EM	BROIDERIES	3				
1987 Census 1986 ASM 1985 ASM 1984 ASM 1983 ASM	264 (NA) (NA) (NA) (NA)	271 (NA) (NA) (NA) (NA)	53 (NA) (NA) (NA) (NA)	5.9 5.3 5.7 6.5 6.8	98.2 81.2 90.4 95.0 90.4	5.0 4.5 4.8 5.5 5.6	9.6 8.8 9.4 10.5 10.8	71.3 60.9 67.4 70.9 67.0	167.0 149.8 159.2 181.7 170.9	137.6 105.8 95.7 116.0 98.6	302.0 254.8 252.8 291.7 268.5	5.9 5.4 6.0 7.6 3.0	38.2 31.7 26.9 29.3 27.9	94 (NA) (NA) (NA) (NA)	98 (NA) (NA) (NA) (NA)
1982 Census 1981 ASM ⁹ 1980 ASM ⁹ 1979 ASM ⁹ 1978 ASM ⁹	356 (NA) (NA) (NA) (NA)	366 (NA) (NA) (NA) (NA)	75 (NA) (NA) (NA) (NA)	7.0 5.3 5.8 4.9 7.0	97.4 71.9 68.3 46.4 70.5	5.8 4.6 4.8 4.1 6.1	11.2 8.9 9.8 7.8 11.5	73.4 53.8 51.8 37.0 53.4	188.9 146.0 124.0 76.4 102.3	116.4 103.2 92.2 58.7 87.3	303.3 243.4 214.5 134.2 187.0	7.4 6.6 2.4 5.5 5.3	29.7 22.0 16.5 10.4 14.4	95 (NA) (NA) (NA) (NA)	96 (NA) (NA) (NA) (NA)
1977 Census 1976 ASM 1975 ASM 1974 ASM 1973 ASM 1972 Census	357 (NA) (NA) (NA) (NA) 466	363 (NA) (NA) (NA) (NA) (NA) 451	58 (NA) (NA) (NA) (NA) 56	6.0 6.0 5.6 5.3 5.3 5.5	56.3 49.7 44.4 39.8 39.8 38.9	5.3 5.4 5.0 4.7 4.8 4.9	10.4 12.0 11.2 10.3 10.3 10.1	42.5 38.4 33.9 29.9 30.4 29.4	96.7 92.6 88.5 78.6 77.1 75.0	62.0 59.9 52.0 44.7 50.4 46.0	158.0 151.8 140.4 123.9 127.4 120.5	3.3 103.7 6.7 4.1 .7 2.2	10.1 7.7 7.1 5.7 7.4 6.4	97 (NA) (NA) (NA) (NA)	98 (NA) (NA) (NA) (NA)
					INC	USTRY 2	2399, FAB	RICATED	TEXTILE PR	ODUCTS, N.	E.C.				
1987 Census 1986 ASM 1985 ASM 1984 ASM	887 (NA) (NA) (NA) (NA)	916 (NA) (NA) (NA) (NA)	311 (NA) (NA) (NA) (NA)	30.5 25.7 25.4 26.6 26.3	430.2 379.8 370.5 353.2 327.3	25.0 21.3 21.1 22.3 21.7	46.7 40.3 40.6 41.0 39.7	290.1 260.4 259.9 245.9 219.7	1 097.2 921.2 934.7 876.8 763.2	1 346.8 1 242.0 1 331.1 1 288.2 986.7	2 442.1 2 152.0 2 265.7 2 147.9 1 747.5	33.1 39.4 62.5 55.0 80.8	331.0 308.0 290.3 272.7 236.5	96 (NA) (NA) (NA) (NA)	92 (NA) (NA) (NA) (NA)
1982 Census 1981 ASM 1980 ASM 1979 ASM	770 (NA) (NA) (NA) (NA)	801 (NA) (NA) (NA) (NA)	259 (NA) (NA) (NA) (NA)	25.1 24.7 26.1 27.3 30.4	290.7 279.6 265.0 258.1 260.6	20.5 20.3 21.7 22.6 25.9	36.8 36.9 38.7 40.3 45.9	197.7 190.0 180.6 175.3 190.0	629.9 561.1 566.8 579.7 522.0	841.7 688.9 642.0 653.2 566.5	1 475.9 1 232.8 1 204.9 1 219.5 1 086.9	23.5 30.3 25.7 1020.6 1036.6	216.9 190.6 196.9 189.7 187.0	93 (NA) (NA) (NA) (NA)	91 (NA) (NA) (NA) (NA)
1977 Census 1976 ASM 1975 ASM 1974 ASM 1973 ASM 1972 Census	845 (NA) (NA) (NA) (NA) 796	877 (NA) (NA) (NA) (NA) (NA)	271 (NA) (NA) (NA) (NA) 286	30.8 29.7 29.5 33.7 33.7 31.4	261.4 241.0 220.5 226.1 212.2 175.3	25.7 25.1 25.1 28.3 28.7 27.1	46.5 44.6 44.3 50.5 54.4 50.1	185.2 171.2 159.3 163.6 157.6 129.8	525.9 533.0 479.4 445.6 396.5 315.5	628.2 592.5 557.2 553.0 504.6 408.0	1 148.4 1 117.1 1 032.6 991.7 892.7 724.7	19.0 18.9 1024.1 20.5 32.7 25.9	164.8 160.6 152.4 157.9 155.7 105.7	94 (NA) (NA) (NA) (NA) (NA)	89 (NA) (NA) (NA) (NA) 82

In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1972, see 1972 Census of Manufactures, vol. II, table 1a of the Industry

²For the Census, a company is defined as a business organization consisting of one establishment or more under common ownership or control

²For the Census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during year.

⁴Beginning with the 1982 Census of Manufactures, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from prior Censuses and annual surveys of manufactures in which respondents were permitted to value their inventories using any generally accepted accounting method. Consequently, inventories and value added by manufacture are not comparable to prior-year data.

⁵Detailed data on materials consumed by type are shown in table 7.

⁶Detailed data on new machinery and equipment expenditures are provided in table 3c.

⁷Represents ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments classified in the industry.

⁸Represents ratio of primary products shipped by establishments classified in industry to total shipments of such products by all manufacturing establishments wherever classified.

⁹Data either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data; thus these estimates may be of limited reliability.

¹⁰Estimates for new capital expenditures have associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

¹¹Industry definition is new for 1987 Census of Manufactures. An explanation of the Standard Industrial Classifications revision appears in the Summary of Findings of this report.

Table 1a-2. Historical Statistics for the Industry (1972 Basis): 1987 and Earlier Years

[Table 1a-2 contains the historical data on the old SIC basis. See table 1c-1 for composition of the new industry on the old SIC basis. Excludes data for auxiliaries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

		All establ	lishments	All em	ployees	Pro	duction wor	kers						Ra	tios
Year	Companies (no.)	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of- year inven- tories (million dollars)	Spe- cial- ization (per- cent)	Cover- age (per- cent)
	INDUSTRY 2395, PLEATING AND STITCHING														
1987 Census 1986 ASM 1985 ASM 1982 ASM 1983 ASM 1982 Census 1981 ASM 1980 ASM 1979 ASM	932 (NA) (NA) (NA) (NA) 906 (NA) (NA) (NA) (NA)	948 (NA) (NA) (NA) (NA) (NA) (NA) (NA) (NA)	281 (NA) (NA) (NA) (NA) (NA) 269 (NA) (NA) (NA)	24.7 18.6 17.8 19.2 20.8 19.8 16.8 17.2 16.4 16.8	336.4 229.5 204.9 219.4 207.4 204.5 167.7 157.0 137.0	19.3 15.2 14.5 15.9 17.3 16.4 14.5 14.7 13.9	34.8 25.9 25.3 27.2 29.2 29.0 25.9 26.1 24.8 24.8	210.0 147.7 131.4 148.6 152.2 150.3 122.6 110.4 96.1 96.3	799.1 432.8 403.9 451.2 474.8 452.6 389.2 352.8 284.1 315.3	814.1 488.9 421.3 453.9 462.0 420.5 389.6 375.9 330.5 388.9	1 580.9 922.1 829.3 896.1 933.4 873.1 778.6 728.9 624.9 704.2	28.1 22.6 13.1 13.3 7.9 17.0 8.3 6.9 15.5 11.3	249.4 137.4 127.4 150.0 154.1 138.8 108.1 98.8 79.4 85.1	(NA) (NA) (NA) (NA) (NA) (NA) (NA) (NA)	(NA) (NA) (NA) (NA) (NA) (NA) (NA) (NA)
1977 Census 1976 ASM 1975 ASM 1974 ASM 1973 ASM 1972 Census	770 (NA) (NA) (NA) (NA) 894	778 (NA) (NA) (NA) (NA) 897	206 (NA) (NA) (NA) (NA) (NA) 205	16.1 12.0 13.7 12.9 15.8 16.7	130.9 105.1 99.6 84.2 85.4 89.2	13.2 9.8 11.5 11.3 14.0 14.7	22.9 17.8 21.6 19.4 24.9 26.3	89.0 73.9 70.1 60.7 62.7 65.3	281.8 199.6 182.6 159.7 164.2 174.7	341.5 191.9 156.9 141.8 130.1	620.2 391.6 339.3 301.0 291.3 308.2	9.3 6.5 4.2 5.4 4.2 3.2	82.9 48.4 41.5 39.5 35.1 40.6	96 (NA) (NA) (NA) (NA)	98 (NA) (NA) (NA) (NA) (NA)

Table 1a-2. Historical Statistics for the Industry (1972 Basis): 1987 and Earlier Years-Con.

[Table 1a-2 contains the historical data on the old SIC basis. See table 1c-1 for composition of the new industry on the old SIC basis. Excludes data for auxiliaries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

		All estab	ishments	All em	ployees	Pro	duction wor	kers						Ra	tios
Year	Com- panies (no.)	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expend-itures (million dollars)	End-of- year inven- tories (million dollars)	Spe- cial- ization (per- cent)	Cover- age (per- cent)
	INDUSTRY 2396, AUTOMOTIVE AND APPAREL TRIMMINGS														
1987 Census 1986 ASM 1985 ASM 1984 ASM 1983 ASM 1982 Census	947 (NA) (NA) (NA) (NA) (NA)	1 296 (NA) (NA) (NA) (NA) (NA)	227 (NA) (NA) (NA) (NA) (NA)	34.2 29.0 28.7 29.7 27.8 26.2 27.7	845.9 765.9 725.4 686.9 600.1	28.3 23.6 23.4 25.3 23.3 21.8 22.7	53.6 47.8 47.9 49.5 44.2 38.8 41.4	653.5 599.4 565.1 537.5 472.6 387.6 389.7	1 651.2 1 471.4 1 467.5 1 521.6 1 335.3 1 000.4 1 061.4	2 141.8 1 768.7 1 666.1 1 620.7 1 397.3 1 120.3 1 224.8	3 780.9 3 227.3 3 156.5 3 109.3 2 723.0 2 130.2 2 286.1	99.7 114.7 91.8 54.8 42.9 41.1 60.5	265.8 218.1 205.0 251.3 275.2 221.4 230.7	(AZ) (AZ) (AZ) (AZ) (AZ) (AZ) (AZ)	(NA) (NA) (NA) (NA) (NA) (NA)
1980 ASM 1979 ASM 1978 ASM	(NA) (NA) (NA)	(NA) (NA) (NA)	(NA) (NA) (NA)	25.7 30.0 30.7	448.5 513.0 507.5	20.8 25.2 26.3	38.1 47.2 50.5	326.2 391.3 397.7	869.3 1 057.0 1 068.8	1 067.0 1 236.5 1 214.1	1 939.5 2 287.4 2 280.8	46.0 38.0 35.1	233.8 232.7 222.1	(NA) (NA) (NA)	(NA) (NA) (NA)
1977 Census 1976 ASM 1975 ASM 1974 ASM 1973 ASM 1972 Census	684 (NA) (NA) (NA) (NA) (NA)	715 (NA) (NA) (NA) (NA) (NA) 668	188 (NA) (NA) (NA) (NA) (NA) 203	30.9 28.2 24.4 25.2 28.4 27.6	476.4 383.3 292.6 288.1 303.8 266.6	26.3 23.6 19.9 20.3 24.0 23.2	51.7 43.9 37.0 38.7 48.4 45.3	374.0 298.2 221.7 214.6 231.6 201.8	1 000.2 762.6 551.5 524.8 585.2 530.8	1 163.0 903.3 733.6 712.8 714.8 614.1	2 166.3 1 658.5 1 283.1 1 234.4 1 289.4 1 133.0	36.1 20.5 20.7 38.5 26.7 10.4	194.3 187.1 154.9 125.3 123.1 103.1	98 (NA) (NA) (NA) (NA) (NA)	96 (NA) (NA) (NA) (NA) 95

Note: For qualifications of data, see footnotes on table 1a-1.

Table 1b-1. Selected Operating Ratios for the Industry (1987 Basis): 1987 and Earlier Years

[Industries with only 1987 data are revised for 1987. Table 1b-2 contains historical data on the old SIC basis. See table 1c-1 for composition of the new industry on the old SIC basis. Excludes data for auxiliaries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Payroll per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
				INDUSTRY 239	1, CURTAINS A	AND DRAPERIES			
1987 Census	12 646	79	1 836	5.85	53	76	26 572	48	18.32
1986 ASM	11 636	81	1 929	5.19	56	77	24 662	47	15.72
1985 ASM	11 730	80	1 873	5.25	57	79	23 012	51	15.34
1984 ASM	10 809	83	1 695	5.43	57	78	22 302	48	15.79
1983 ASM	9 687	83	1 737	4.89	59	80	19 250	50	13.43
1982 Census	9 697	82	1 716	5.04	58	80	18 344	53	13.08
	9 506	82	1 832	4.33	58	78	19 592	49	13.04
	8 339	86	1 781	3.89	55	77	16 204	51	10.52
	7 837	87	1 776	3.71	52	75	15 601	50	10.11
	7 179	84	1 777	3.43	60	83	12 336	58	8.23
1977 Census	7 088	86	1 761	3.42	60	82	12 849	55	8.50
	7 165	90	1 781	3.17	60	82	13 603	53	8.44
	6 441	90	1 822	2.82	61	83	10 941	59	6.68
	5 645	90	1 739	2.61	61	81	10 653	53	6.81
	5 051	88	1 828	2.36	64	86	8 912	57	5.55
	4 929	87	1 861	2.27	61	83	8 917	55	5.51
				INDUSTRY 239	2, HOUSEFURN	IISHINGS, N.E.C			
1987 Census	14 133	85	1 958	6.19	62	78	34 838	41	20.99
	13 393	82	1 975	5.75	65	81	29 113	46	17.96
	12 888	83	1 896	5.74	64	80	29 583	44	18.86
	12 572	83	1 920	5.62	63	78	29 306	43	18.46
	10 764	81	2 034	4.63	65	79	27 936	39	17.00
1982 Census	10 511	81	1 950	4.76	61	77	25 335	41	16.10
1981 ASM	10 585	82	1 935	4.56	62	78	26 093	41	16.36
1980 ASM	9 470	83	1 935	4.21	63	79	22 027	43	13.65
1979 ASM	8 782	84	1 912	3.95	65	81	19 750	44	12.35
1978 ASM	8 195	84	1 866	3.75	66	83	16 480	50	10.46
1977 Census 1976 ASM 1975 ASM 1975 ASM 1974 ASM 1973 ASM 1972 Census	7 713 7 216 6 977 6 158 5 846 5 604	84 82 83 83 85 84	1 894 1 889 1 920 1 902 1 918 1 955	3.45 3.25 3.08 2.76 2.56 2.35	67 65 63 60 60 63	83 81 80 77 78 81	16 482 16 256 15 235 14 498 13 225 11 634	47 44 46 42 44 48	10.38 10.44 9.61 9.17 8.15 7.09

Table 1b-1. Selected Operating Ratios for the Industry (1987 Basis): 1987 and Earlier Years —Con.

[Industries with only 1987 data are revised for 1987. Table 1b-2 contains historical data on the old SIC basis. See table 1c-1 for composition of the new industry on the old SIC basis. Excludes data for auxiliances. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

data for auxilianes. For								and the state of t	C Dasis. Excludes
Year	Payroll per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
				INDUST	RY 2393, TEXT	ILE BAGS			
1987 Census 1986 ASM 1985 ASM 1984 ASM 1983 ASM	13 409 12 521 12 380 12 513 11 536	83 84 85 85 85	1 849 1 828 1 750 1 889 1 857	5.65 5.35 5.60 5.38 5.18	59 59 58 57 61	80 77 76 76 81	27 261 30 043 30 845 28 297 21 390	49 42 40 44 54	17.77 19.56 20.86 17.60 13.49
1982 Census 1981 ASM 1980 ASM 1979 ASM 1978 ASM	11 623 10 757 9 696 8 698 8 269	84 86 85 86 82	1 877 1 947 1 821 1 857 1 932	5.31 4.73 4.42 3.80 3.88	60 60 59 55 61	81 78 78 73 81	21 792 23 864 21 000 21 521 16 404	53 45 46 40 50	13.75 14.19 13.59 13.43 10.35
1977 Census 1976 ASM 1975 ASM 1974 ASM 1973 ASM 1972 Census	8 134 9 120 8 793 7 256 5 510 5 569	83 79 81 85 86 85	1 897 1 957 1 979 1 909 1 797 1 896	3.63 3.80 3.57 3.13 2.54 2.47	62 58 59 64 71 71	83 75 77 80 88 89	14 902 22 172 19 621 17 167 9 848 9 430	55 41 45 42 56 59	9.47 14.29 12.24 10.63 6.38 5.87
	1		IND	USTRY 2394, C	ANVAS AND R	ELATED PRODU	JCTS		
1987 Census 1986 ASM 1985 ASM 1984 ASM 1983 ASM	16 204 15 028 14 401 13 627 12 967	75 79 79 76 78	1 889 2 022 2 162 2 186 1 907	7.20 6.48 5.91 5.63 5.62	49 53 54 49 52	75 78 78 73 77	32 934 27 103 26 872 30 006 25 776	49 55 54 45 50	23.11 17.00 15.72 17.98 17.41
1982 Census	12 243 12 760 11 720 11 033 9 103	76 80 77 79 81	1 867 1 930 2 047 1 979 1 763	5.58 5.28 4.58 4.43 4.18	51 50 49 51 50	75 74 74 75 74	24 845 26 576 23 378 22 317 19 442	49 48 50 49 47	17.43 17.21 14.74 14.24 13.67
1977 Census	8 748 8 009 7 153 7 160 6 050 5 883	79 83 84 82 80 80	1 755 1 814 1 770 1 804 1 857 1 874	3.89 3.49 3.25 3.16 2.57 2.55	52 53 51 53 53 53	77 81 78 80 79 82	17 079 14 252 12 865 12 196 11 050 10 101	51 56 56 59 55 58	12.30 9.41 8.69 8.23 7.44 6.75
				INDUSTRY 239	5, PLEATING A	AND STITCHING	i		
1987 Census	12 369	84	1 771	5.75	48	71	28 142	44	18.99
			INDUS	TRY 2396, AUT	OMOTIVE AND	APPAREL TRIM	IMINGS		
1987 Census	22 498	80	1 885	11.01	56	78	45 835	49	30.42
			IND	USTRY 2397, S	CHIFFLI MACH	INE EMBROIDE	RIES		
1987 Census	16 644 15 320 15 859 14 615 13 294	85 85 84 85 82	1 920 1 956 1 958 1 909 1 929	7.43 6.92 7.17 6.75 6.20	46 42 38 40 37	78 73 74 72 70	28 305 28 264 27 930 27 954 25 132	59 54 57 52 53	17.40 17.02 16.94 17.30 15.82
1982 Census	13 914 13 566 11 775 9 469 10 071	83 87 83 84 87	1 931 1 935 2 042 1 902 1 885	6.55 6.04 5.29 4.74 4.64	38 42 43 44 47	70 72 75 78 84	26 986 27 547 21 379 15 592 14 614	52 49 55 61 69	16.87 16.40 12.65 9.79 8.90
1977 Census	9 383 8 283 7 928 7 509 7 509 7 072	88 90 89 89 91	1 962 2 222 2 240 2 191 2 146 2 061	4.09 3.20 3.03 2.90 2.95 2.91	39 39 37 36 40 38	75 72 69 68 71 70	16 117 15 433 15 804 14 830 14 547 13 636	58 54 50 51 52 52	9.30 7.72 7.90 7.63 7.49 7.43
			INDUS			ILE PRODUCTS			
1987 Census	14 105 14 778 14 586 13 278 12 444	82 83 83 84 83	1 868 1 892 1 924 1 839 1 829	6.21 6.46 6.40 6.00 5.53	55 58 59 60 56	73 75 75 76 75	35 974 35 844 36 799 32 962 29 019	39 41 40 40 43	23.49 22.86 23.02 21.39 19.22
1982 Census	11 581 11 319 10 153 9 454 8 572	82 82 83 83 85	1 795 1 818 1 783 1 783 1 772	5.37 5.15 4.67 4.35 4.14	57 56 53 54 52	77 79 75 75 76	25 096 22 717 21 716 21 234 17 171	46 50 47 45 50	17.12 15.21 14.65 14.38 11.37
1977 Census 1976 ASM 1975 ASIM 1975 ASIM 1974 ASIM 1973 ASIM 1972 Census	8 487 8 114 7 474 6 709 6 296 5 582	83 85 85 84 85 86	1 809 1 777 1 765 1 784 1 895 1 849	3.98 3.84 3.60 3.24 2.90 2.59	55 53 54 56 57 56	77 75 75 79 80 80	17 075 17 946 16 251 13 223 11 766 10 048	50 45 46 51 54 56	11.31 11.95 10.82 8.82 7.29 6.30

Note: For qualifications of data, see footnotes on table 1a-1.

Table 1b-2. Selected Operating Ratios for the Industry (1972 Basis): 1987 and Earlier Years

[Table 1b-2 contains the historical data on the old SIC basis. See table 1c-1 for composition of the new industry on the old SIC basis. Excludes data for auxiliaries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

					r				
Year	Payroll per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
				INDUSTRY 23	95, PLEATING	AND STITCHING	i		
1987 Census	13 619	78	1 803	6.03	51	73	32 352	42	22.96
	12 338	82	1 704	5.70	53	78	23 269	53	16.71
	11 511	81	1 745	5.19	51	76	22 691	51	15.96
	11 427	83	1 711	5.46	51	75	23 500	49	16.59
	9 971	83	1 688	5.21	49	72	22 827	44	16.26
1982 Census	10 328	83	1 768	5.18	48	72	22 859	45	15.61
	9 982	86	1 786	4.73	50	72	23 167	43	15.03
	9 127	85	1 776	4.23	52	73	20 512	45	13.52
	8 353	85	1 784	3.88	53	75	17 323	48	11.46
	8 702	79	1 865	3.88	55	76	18 768	46	12.71
1977 Census	8 130	82	1 735	3.89	55	76	17 503	46	12.31
1976 ASM	8 758	82	1 816	4.15	49	76	16 633	53	11.21
1975 ASM	7 270	84	1 878	3.25	46	76	13 328	55	8.45
1974 ASM	6 527	88	1 717	3.13	47	75	12 380	53	8.23
1973 ASM	5 405	89	1 779	2.52	45	74	10 392	52	6.59
1972 Census	5 341	88	1 789	2.48	46	75	10 461	51	6.64
			INDUS	TRY 2396, AUT	OMOTIVE AND	APPAREL TRI	MINGS		
1987 Census	24 734	83	1 894	12.19	57	79	48 281	51	30.81
	26 410	81	2 025	12.54	55	79	50 738	52	30.78
	25 275	82	2 047	11.80	53	76	51 132	49	30.64
	23 127	85	1 957	10.86	52	74	51 232	45	30.74
	21 586	84	1 897	10.69	51	73	48 032	45	30.21
1982 Census	19 282	83	1 780	9.99	53	76	38 183	50	25.78
	18 678	82	1 824	9.41	54	76	38 318	49	25.64
	17 451	81	1 832	8.56	55	78	33 825	52	22.82
	17 100	84	1 873	8.29	54	76	35 233	49	22.39
	16 530	86	1 920	7.88	53	75	34 814	47	21.16
1977 Census	15 417	85	1 966	7.23	54	76	32 369	48	19.35
	13 592	84	1 860	6.79	54	78	27 043	50	17.37
	11 991	82	1 859	5.99	57	80	22 602	53	14.91
	11 432	81	1 906	5.55	58	81	20 825	55	13.56
	10 697	85	2 017	4.79	55	79	20 606	52	12.09
	9 659	84	1 953	4.45	54	78	19 232	50	11.72

Note: For qualifications of data, see footnotes on table 1a-1.

Table 1c-1. 1987 Statistics for the Industry Showing the Distribution of 1987 SIC-Based Industries Among 1972 SIC-Based Industries

[Excludes data for auxiliaries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

		All em	ployees	Pro	duction wo	kers	Value			New	F.d.(
Industry	All estab- lish- ments (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	capital expend- itures (million dollars)	End-of- year inven- tories (million dollars)
New Industry 2395, Pleating and Stitching	685	14.1	174.4	11.8	20.9	120.1	396.8	346.1	728.0	12.1	113.5
Old Industry 2395, Pleating and Stitching	685	14.1	174.4	11.8	20.9	120.1	396.8	346.1	728.0	12.1	113.5
New Industry 2396, Automotive and Apparel Trimmings Old Industry 2395, Pleating and Stitching Old Industry 2396, Automotive and Apparel Trimmings	1 560	44.8	1 007.9	35.8	67.5	743.4	2 053.4	2 609.8	4 633.7	115.8	401.7
	264	10.6	162.0	7.5	13.9	89.9	402.2	468.0	852.9	16.1	135.9
	1 296	34.2	845.9	28.3	53.6	653.5	1 651.2	2 141.8	3 780.9	99.7	265.8

Note: For qualifications of data, see footnotes on table 1a-1.

Table 1c-2. 1987 Statistics for the Industry Showing the Distribution of 1972 SIC-Based Industries Among 1987 SIC-Based Industries

[Excludes data for auxilianes. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

		All em	ployees	Pro	duction wo	rkers	Value added by			New	C-d-f
Industry	All estab- lish- ments (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	capital expend- itures (million dollars)	End-of- year inven- tories (million dollars)
Old Industry 2395, Pleating and Stitching New Industry 2395, Pleating and Stitching New Industry 2396, Automotive and Apparel	948 685	24.7 14.1	336.4 174.4	19.3 11.8	34.8 20.9	210.0 120.1	799.1 396.8	814.1 346.1	1 580.9 728.0	28.1 12.1	249.4 113.5
Trimmings	264	10.6	162.0	7.5	13.9	89.9	402.2	468.0	852.9	16.1	135.9
Old Industry 2396, Automotive and Apparel Trimmings New Industry 2396, Automotive and Apparel	1 296	34.2	845.9	28.3	53.6	653.5	1 651.2	2 141.8	3 780.9	99.7	265.8
Trimmings	1 296	34.2	845.9	28.3	53.6	653.5	1 651.2	2 141.8	3 780.9	99.7	265.8

Note: For qualifications of data, see footnotes on table 1a-1.

Table 2. Industry Statistics for Selected States: 1987 and 1982

[Excludes data for auxiliaries. States with 150 employees or more are shown. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Excludes data for auxiliaries. States			,				198		,					1982
		All estab	lishments	All em	ployees	Pro	duction wo	rkers						
Industry and geographic area	E¹	Total (no.)	With 20 employ- ees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employ- ees ² (1,000)	Value added by manufac- ture (million dollars)
INDUSTRY 2391, CURTAINS AND DRAPERIES														
United States	E 2	1 250	239	27.1	342.7	21.4	39.3	230.0	720.1	8 23.6	1 539.6	14.9	24.1	442.1
Alabama	E4 E2 E4	13 29 258 21 7	4 3 40 2 3	BB .3 3.6 AA BB	(D) 2.9 43.8 (D) (D)	(D) .2 2.9 (D) (D)	(D) ,4 5.4 (D) (D)	(D) 2.1 29.8 (D) (D)	(D) 6.2° 99.4 (D) (D)	(D) 5.7 95.6 (D) (D)	(D) 12.0 194.2 (D) (D)	(D) (Z) (D) (D) (D)	.5 .2 3.3 (NA) .3	9.3 4.3 57.5 (NA) 8.4
Florida	E3 E2 E4 E3	92 41 47 32 51	8 14 7 10 24	.9 2.0 BB 1.1 3.6	12.6 24.3 (D) 13.7 44.5	.7 1.3 (D) .9 3.1	1.3 2.4 (D) 1.7 5.3	8.1 12.8 (D) 8.9 33.5	17.9 44.5 (D) 23.1 129.0	23.2 39.3 (D) 30.3 129.9	40.8 83.5 (D) 53.4 253.1	.5 1.5 (D) 2.1 1.2	1.0 1.4 .5 .7 2.8	16.3 36.9 9.2 13.0 53.6
Michigan	E1 E6 E2 E4 E3	17 23 29 31 90	3 2 3 6 22	AA AA .3 .8 2.3	(D) (D) 2.5 11.9 32.0	(D) (D) .2 .7 1.6	(D) (D) .4 1.4 2.7	(D) (D) 1.8 10.0 19.1	(D) (D) 4.0 19.9 72.2	(D) (D) 4.5 13.4 115.0	(D) (D) 8.5 33.2 186.2	(D) (D) (Z) .1 (D)	.3 AA BB .6 1.8	5.5 (D) (D) 11.2 49.8
North Carolina	E3 E6 E1 E3	4 ! 29 12 17 54	13 5 4 3 5	3.8 BB BB .2 .6	51.0 (D) (D) 2.6 7.2	2.9 (D) (D) .1 .5	5.5 (D) (D) .3 1.0	32.9 (D) (D) 1.4 5.0	100.2 (D) (D) 4.7 12.0	116.5 (D) (D) 4.2 12.5	217.1 (D) (D) 8.8 26.8	(D) (D) (D) (D)	3.6 .4 .3 .2 .8	56.4 9.4 5.4 1.9 9.6
Rhode Island	E2 E2 E1 E1 E5	6 18 19 89 28	2 8 4 19 5	BB .7 BB EE AA	(D) 9.9 (D) (D) (D)	(D) .6 (D) (D) (D)	(D) 1.3 (D) (D) (D)	(D) 7.4 (D) (D) (D)	(D) 25.8 (D) (D) (D)	(D) 16.4 (D) (D) (D)	(D) 41.4 (D) (D) (D)	(D) .2 (D) (D) (D)	(NA) .5 .4 1.7 (NA)	(NA) 6.1 3.8 30.1 (NA)
Washington West Virginia Wisconsin	E5 E1	25 6 15	3 1 2	.2 BB AA	3.0 (D) (D)	.2 (D) (D)	.3 (D) (D)	1.9 (D) (D)	5.2 (D) (D)	5.5 (D) (D)	10.7 (D) (D)	(D) (D) (D)	.3 AA .2	4.6 (D) 3.8
INDUSTRY 2392, HOUSEFURNISHINGS, N.E.C.													i.	
United States	E1	944	402	50.5	713.7	42.8	83.8	518.6	1 7 59.3	2 816.4	4 530. 0	44.2	49.3	1 249.0
Alabama	E1	15 5	11 2	3.4 .2	48.1 1.8	3.0 .1	6.0 .2	40.4 1.3	145.2 5.3	314.8 4.0	450.7 9.4	1.2 (Z)	2.4 BB	114.7 (D)
ArkansasCaliforniaConnecticut	E2	9 141 7	6 50 2	.7 4.3 AA	7.8 63.2 (D)	.7 3.6 (D)	1.2 7.2 (D)	6.8 44.4 (D)	15.3 158.9 (D)	8.1 210.6 (D)	23.2 366.2 (D)	(D) (D) (D)	BB 4.5 .3	(D) 119.3 9.2
Florida	E3 E1 E2 E3 E2	51 57 39 18 5	18 31 20 7 2	1.1 4.1 1.6 1.1 AA	14.4 55.3 23.8 14.6 (D)	1.0 3.4 1.3 .9 (D)	1.9 6.7 2.7 1.7 (D)	11.1 39.4 15.0 10.8 (D)	40.9 119.0 58.4 23.6 (D)	48.2 231.9 91.3 42.4 (D)	88.1 346.0 148.5 66.2 (D)	.5 2.1 (D) .6 (D)	.7 4.0 1.5 .5 (NA)	13.1 109.1 49.9 10.8 (NA)
Kentucky	E4 E3 E1 E2	7 6 11 19 8	5 3 4 10 5	CC .2 .3 CC BB	(D) 1.9 4.7 (D) (D)	(D) .1 .3 (D) (D)	(D) .2 .5 (D) (D)	(D) 1.2 2.5 (D) (D)	(D) 3.1 10.1 (D) (D)	(D) 4.7 16.1 (D) (D)	(D) 7.8 26.1 (D) (D)	(D) (D) (D) (D)	.9 (NA) (NA) .6 (NA)	27.5 (NA) (NA) 21.7 (NA)

Table 2. Industry Statistics for Selected States: 1987 and 1982—Con.

[Excludes data for auxiliaries. State	s with	150 emp	loyees or	more are sl	hown. For n	neaning of	abbreviation	ons and sym	bols, see intro	ductory text. I	For explanation	of terms, s	ee append	ixes]
	_						198							1982
Industry and geographic area	E¹	Total (no.)	With 20 employ- ees or more (no.)	All em Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manufac- ture (million dollars)
INDUSTRY 2392, HOUSEFURNISHINGS, N.E.C.—Con.														
Mississippi Missouri Nebraska New Hampshire New Jersey	E3 E9 E2	9 14 5 4 62	5 3 3 1 34	1.1 .2 AA AA 3.4	13.9 2.4 (D) (D) 48.8	.9 .1 (D) (D) 3.0	1.7 .3 (D) (D) 5.4	9.1 1.6 (D) (D) 35.9	33.7 4.6 (D) (D) 111.0	42.6 8.1 (D) (D) 185.8	75.4 12.6 (D) (D) (D) 296.3	(D) .2 (D) (D) 3.0	.7 .3 (NA) AA 2.8	21.3 7.1 (NA) (D) 75.5
New York	E2 - E1 E1	153 59 22 4 41	54 34 9 1	4.3 FF EE AA 2.0	65.2 (D) (D) (D) (D) 27.1	3.4 (D) (D) (D) (D)	6.5 (D) (D) (D) 3.2	41.0 (D) (D) (D) 18.6	149.9 (D) (D) (D) 65.9	258.4 (D) (D) (D) 76.6	408.5 (D) (D) (D) 142.8	(D) (D) (D) (D) 1.3	9.2 7.6 1.0 .4 2.1	152.8 211.0 19.2 7.1 38.9
South Carolina South Dakota Tennessee Texas Virginia Washington Wisconsin	E1 E2 E1	31 6 15 43 7 8 7	17 4 5 15 7 3 2	3.2 BB .4 EE EE .4 BB	41.7 (D) 5.8 (D) (D) 7.5 (D)	2.8 (D) .4 (D) (D)	5.4 (D) 7 (D) (D) 7 (D)	32.2 (D) 3.7 (D) (D) 5.7 (D)	141.0 (D) 15.9 (D) (D) 16.0 (D)	192.9 (D) 11.8 (D) (D) (D) 38.9 (D)	335.1 (D) 27.5 (D) (D) 54.4 (D)	3.4 (D) (D) (D) (D) (D) (D)	5.3 AA .3 .8 EE (NA) (NA)	108.8 (D) 10.3 24.5 (D) (NA) (NA)
INDUSTRY 2393, TEXTILE BAGS														
United States	E1	262	116	8.8	118.0	7.3	13.5	76.3	239.9	336.4	571.5	5.8	7.7	167.8
California Florida Georgia Iowa Louisiana	E1 - -	35 11 9 1 4	13 3 6 1 4	EE AA .5 AA .2	(D) (D) 7.8 (D) 2.7	(D) (D) .4 (D) .2	(D) (D) .7 (D) .4	(D) (D) 5.1 (D) 2.0	(D) (D) 15.8 (D) 6.5	(D) (D) 21.2 (D) 10.2	(D) (D) 36.8 (D) 16.3	(D) (D) .4 (D) .1	.8 (NA) .6 (NA)	16.9 (NA) 12.2 (NA) 6.4
Massachusetts Michigan Missouri New Jersey New York	E4 - E1 E2	12 6 7 11 23	4 4 6 9 7	AA ,2 ,5 ,7 CC	(D) 2.4 6.6 13.2 (D)	(D) .1 .4 .6 (D)	(D) .2 .6 1.1 (D)	(D) 1.3 3.8 7.8 (D)	(D) 5.0 9.8 25.1 (D)	(D) 6.0 38.6 36.4 (D)	(D) 11.0 48.1 61.0 (D)	(D) (D) .3 .3 (D)	.2 (NA) .3 .6 .5	3.1 (NA) 5.8 15.7 10.0
North Carolina Oregon Pennsylvania South Carolina Tennessee	E2 E1 E4	10 4 12 4 7	9 2 8 2 6	.7 BB .6 AA .3	6.7 (D) 8.3 (D) 3.9	.6 (D) .5 (D) .3	1.0 (D) .8 (D)	4.8 (D) 5.7 (D) 2.9	11.8 (D) 19.5 (D) 8.9	15.5 (D) 15.6 (D) 19.0	27.5 (D) 33.9 (D) 27.5	(D) (D) .9 (D) (D)	.3 BB .5 (NA)	7.4 (D) 12.5 (NA) 8.1
TexasUtah Utah Wisconsin	E4 E1 -	11 8 3	4 4 1	AA .3 AA	(D) 2.8 (D)	(D) .2 (D)	(D) .4 (D)	(D) 1.8 (D)	(D) 6.7 (D)	(D) 5.6 (D)	(D) 12.3 (D)	(D) (D) (D)	.5 (NA) (NA)	9.2 (NA) (NA)
INDUSTRY 2394, CANVAS AND RELATED PRODUCTS														
United States	E 2	1 273	196	16.7	270.6	12.6	23.8	171.3	550.0	525.0	1 064.7	20.1	14.8	367.7
Arizona California Colorado Connecticut Florida	E4 E1 E3 E1	15 151 20 24 128	4 17 3 4 16	.4 1.7 BB BB 1.8	5.2 27.4 (D) (D) 30.4	.3 1.2 (D) (D) 1.4	.6 2.3 (D) (D) 2.7	3.8 16.3 (D) (D) 21.0	9.5 52.6 (D) (D) 64.5	9.5 40.7 (D) (D) 54.0	18.3 93.4 (D) (D) 116.1	.3 (D) (D) (D) 3.5	.2 1.6 .3 .4 1.3	3.9 35.0 13.7 9.7 42.2
Georgia Illinois Indiana Iowa Kansas	E1 E6 E4	15 40 26 17 9	7 11 5 2 4	.6 CC CC AA AA	9.4 (D) (D) (D) (D)	.5 (D) (D) (D) (D)	.9 (D) (D) (D) (D)	5.8 (D) (D) (D) (D)	22.7 (D) (D) (D) (D)	25.3 (D) (D) (D) (D)	45.4 (D) (D) (D) (D)	1.8 (D) (D) (D) (D)	AA .6 .5 .2 (NA)	(D) 18.0 13.0 3.8 (NA)
Maryland Massachusetts Michigan Minnesota Missouri	E3 E7 E1 E3	36 44 55 23 23	6 4 10 1 6	CC BB CC AA .8	(D) (D) (D) (D) 11.7	(D) (D) (D) (D) .6	(D) (D) (D) (D) 1.0	(D) (D) (D) (D) 6.5	(D) (D) (D) (D) 29.9	(D) (D) (D) (D) 35.1	(D) (D) (D) (D) 60.8	(D) (D) (D) (D)	.5 .6 .5 .2	11.9 17.5 12.9 4.1 16.0
New Jersey New York North Carolina North Dakota Ohio	E3 E1 E2 - E2	49 102 27 4 56	4 11 2 1 13	.4 1.1 AA BB CC	4.7 18.0 (D) (D) (D)	.3 .8 (D) (D) (D)	.5 1.5 (D) (D) (D)	3.3 10.7 (D) (D) (D)	9.5 44.6 (D) (D) (D)	10.8 43.5 (D) (D) (D)	19.6 87.3 (D) (D) (D)	.2 1.8 (D) (D) (D)	.2 1.2 BB CC .6	4.8 28.9 (D) (D) 14.0
Oregon Pennsylvania South Carolina Tennessee Texas	E3 E3 E2	19 52 11 17 62	1 5 3 9 12	.2 .5 .2 .8 CC	3.5 6.9 2.0 11.1 (D)	.1 .4 .1 .6 (D)	.3 .7 .2 1.2 (D)	2.1 4.8 1.2 7.5 (D)	5.1 12.3 4.3 26.7 (D)	3.5 12.3 5.2 25.8 (D)	8.6 24.5 9.4 51.6 (D)	.2 .4 .1 1.3 (D)	(NA) .4 (NA) .5	(NA) 9.3 (NA) 13.2 14.2
Virginia Washington Wisconsin	E2 E3	18 45 30	3 5 8	AA .3 .5	(D) 5.2 8.8	(D) .2 .4	(D) .4 .7	(D) 3.3 5.5	(D) 11.1 14.5	(D) 8.7 11.9	(D) 19.7 26.4	(D) .4 (D)	(NA) .2 .5	(NA) 5.2 12.5

Table 2. Industry Statistics for Selected States: 1987 and 1982—Con.

[Excludes data for auxilianes. States with 150 employees or more are shown. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Excludes data for auxilianes. State	s with	150 emp	loyees or	more are s	hown. For n	neaning of	abbreviation 198		ibols, see intro	ductory text. I	or explanation	of terms, s		1982
		All establ	lishments	All em	ployees	Pro	duction wo							1302
Industry and geographic area	E١	Total (no.)	With 20 employ- ees or more (no.)		Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manulac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manufac- ture (million dollars)
INDUSTRY 2395, PLEATING AND STITCHING														
United States	E 3	685	169	14.1	174.4	11.8	20.9	120.1	396.8	346.1	728.0	12.1	(NA)	(NA)
California Florida Georgia Illinois Massachusetts	E3 E1 - E5	90 30 11 22 20	25 8 4 4 8	2.6 .5 BB CC BB	29.5 5.2 (D) (D) (D)	2.1 .4 (D) (D) (D)	3.7 .8 (D) (D) (D)	19.7 4.0 (D) (D) (D)	58.7 43.9 (D) (D) (D)	56.4 20.7 (D) (D) (D)	113.0 63.7 (D) (D) (D)	(D) .2 (D) (D) (D)	(NA) (NA) (NA) (NA) (NA)	(NA) (NA) (NA) (NA) (NA)
Michigan Missouri New Jersey New York North Carolina	E3 E6	10 18 98 136 35	3 7 17 28 18	.3 .5 1.4 2.0 2.2	4.2 5.7 20.1 24.1 25.3	.2 .4 1.2 1.7 1.8	.3 .7 2.2 3.1 3.3	2.3 4.0 14.4 17.1 17.9	9.1 19.1 41.0 47.0 41.6	7.2 13.6 32.3 39.5 62.8	16.1 32.4 72.9 86.3 100.9	(D) .3 1.0 .9 2.2	(NA) (NA) (NA) (NA) (NA)	(NA) (NA) (NA) (NA) (NA)
Ohio	E1 E3 E4	20 20 14 41	4 9 5 8	BB .7 .3 CC	(D) 11.7 3.7 (D)	(D) .7 .3 (D)	(D) 1.2 .6 (D)	(D) 8.6 2.8 (D)	(D) 20.8 6.0 (D)	(D) 19.1 3.0 (D)	(D) 40.0 9.1 (D)	(D) 1.0 (D) (D)	(NA) (NA) (NA) (NA)	(NA) (NA) (NA) (NA)
INDUSTRY 2396, AUTOMOTIVE AND APPAREL TRIMMINGS														
United States	-	1 559	339	44.8	1 007.9	3 5 .8	67.5	743.4	2 053.4	2 609.8	4 633.7	115.8	(NA)	(NA)
Alabama Arizona California Connecticut Florida	E3 E8 E3 E3 E2	18 17 237 13 73	5 2 56 2 9	BB .2 4.6 AA 1.0	(D) 1.9 71.0 (D) 12.7	(D) .1 3.6 (D) .8	(D) .2 6.4 (D) 1.4	(D) 1.4 45.9 (D) 8.5	(D) 4.6 171.2 (D) 28.0	(D) 5.2 197.4 (D) 40.4	(D) 9.1 362.7 (D) 67.7	(D) .3 (D) (D) 1.0	(NA) (NA) (NA) (NA) (NA)	(NA) (NA) (NA) (NA) (NA)
Georgia	E2 - E2 E1	36 13 42 27 16	8 3 4 5 2	.9 .3 BB .6 AA	14.5 3.6 (D) 11.2 (D)	.6 .2 (D) .5 (D)	1.1 .4 (D) .9 (D)	8.9 2.4 (D) 7.7 (D)	24.5 7.3 (D) 31.1 (D)	32.0 12.3 (D) 35.3 (D)	56.4 19.2 (D) 65.3 (D)	1.1 (D) 2.1 (D)	(NA) (NA) (NA) (NA) (NA)	(NA) (NA) (NA) (NA) (NA)
Maine Maryland Massachusetts Michigan Minnesota	_	6 22 48 61 29	1 6 11 17 2	BB .5 1.5 FF BB	(D) 10.8 23.2 (D) (D)	(D) .4 1.1 (D) (D)	(D) .8 1.8 (D) (D)	(D) 7.3 11.9 (D) (D)	(D) 17.7 42.9 (D) (D)	(D) 24.5 54.3 (D) (D)	(D) 42.3 96.4 (D) (D)	(D) (D) (D) (D)	(NA) (NA) (NA) (NA) (NA)	(NA) (NA) (NA) (NA) (NA)
Missouri	E3 E2 E2 E2	22 92 221 59 57	9 27 68 23 12	.6 1.8 6.7 EE 3.1	8.5 31.0 99.0 (D) 74.5	.4 1.5 5.1 (D) 2.3	.7 2.8 8.2 (D) 4.5	5.5 21.4 58.9 (D) 53.7	19.7 71.3 189.5 (D) 196.8	26.4 106.9 202.4 (D) 188.2	45.8 178.5 383.9 (D) 378.9	1.7 2.3 (D) (D) (D)	(NA) (NA) (NA) (NA) (NA)	(NA) (NA) (NA) (NA) (NA)
Pennsylvania Rhode Island South Carolina Tennessee	E1 E3 E3	65 11 27 32 57	17 4 8 12 7	1.4 BB .5 CC BB	23.0 (D) 5.8 (D) (D)	1.2 (D) .4 (D) (D)	2.2 (D) .7 (D) (D)	16.3 (D) 4.0 (D) (D)	60.7 (D) 12.0 (D) (D)	37.9 (D) 11.8 (D) (D)	98.5 (D) 23.8 (D) (D)	1.5 (D) (D) (D) (D)	(NA) (NA) (NA) (NA) (NA)	(NA) (NA) (NA) (NA) (NA)
Virginia Washington Wisconsin	E3 E7 E1	30 36 25	4 2 3	.4 .4 .2	3.8 5.1 3.5	.3 .3 .2	.5 .6 .3	2.7 3.7 1.8	8.1 11.7 9.5	10.6 11.7 9.1	18.6 23.4 17.5	.5 .3 (D)	(NA) (NA) (NA)	(NA) (NA) (NA)
INDUSTRY 2397, SCHIFFLI MACHINE EMBROIDERIES														
United States California	E1 E2 E2	271 12 4 3 193 18	53 7 4 2 18 6	5.9 CC AA BB 2.1 BB	98.2 (D) (D) (D) 42.0 (D)	5.0 (D) (D) (D) 1.7 (D)	9.6 (D) (D) 3.3 (D)	71.3 (D) (D) (D) 28.6 (D)	167.0 (D) (D) (D) 65.5 (D)	137.6 (D) (D) (D) 71.7 (D)	302.0 (D) (D) (D) 136.6 (D)	5.9 (D) (D) (D) 1.1 (D)	7.0 .4 AA BB 3.4 .4	188.9 6.9 (D) (D) 112.1 13.4
North Carolina Pennsylvania South Carolina	E6	2 5 5	2 3 5	BB .2 EE	(D) 3.2 (D)	(D) .2 (D)	(D) .3 (D)	(D) 2.3 (D)	(D) 7.2 (D)	(D) 5.0 (D)	(D) 12.0 (D)	(D) .2 (D)	BB .3 CC	(D) 5.2 (D)
INDUSTRY 2399, FABRICATED TEXTILE PRODUCTS, N.E.C.														
United States	E1	916	311	30.5	430.2	25.0	46.7	290.1	1 097.2	1 346.8	2 442.1	33.1	25.1	629.9
Alabama Arizona California Colorado Connecticut	E3	21 10 146 13 9	8 4 47 3 3	2.3 .3 3.7 BB AA	30.5 4.0 48.7 (D) (D)	2.0 .2 3.0 (D) (D)	4.0 .4 5.5 (D) (D)	23.2 2.3 33.0 (D) (D)	104.4 10.4 106.5 (D) (D)	160.8 7.1 115.6 (D) (D)	275.1 17.5 220.4 (D) (D)	.9 .1 1.8 (D) (D)	1.1 (NA) 2.9 .4 .2	32.6 (NA) 58.8 1.6 6.0
Florida Georgia Illinois Indiana Massachusetts	E2	55 46 27 17 34	11 27 15 9 12	.9 2.7 CC 1.0 CC	12.6 49.9 (D) 14.7 (D)	.8 2.1 (D) .8 (D)	1.2 4.1 (D) 1.4 (D)	8.0 26.1 (D) 10.3 (D)	41.3 129.8 (D) 48.4 (D)	41.6 168.9 (D) 64.1 (D)	83.6 294.3 (D) 111.0 (D)	.6 8.3 (D) (D) (D)	.7 1.5 .8 .5	16.0 47.4 16.8 18.8 14.1

Table 2. Industry Statistics for Selected States: 1987 and 1982-Con.

[Excludes data for auxiliaries. States with 150 employees or more are shown. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Excludes data for advinances. Orace			,				198				· ·			1982
		All establ	lishments	All em	ployees	Pro	duction wo							
Industry and geographic area	E¹	Total (no.)	With 20 employ- ees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manufac- ture (million dollars)
INDUSTRY 2399, FABRICATED TEXTILE PRODUCTS, N.E.C.—Con.														
Michigan Minnesota Mississippi Missouri Montana	E5 E1	15 12 7 12 2	3 3 4 3 1	CC BB CC .3 BB	(D) (D) (D) 3.4 (D)	(D) (D) (D) .2 (D)	(D) (D) (D) .4 (D)	(D) (D) (D) 2.8 (D)	(D) (D) (D) 10.1 (D)	(D) (D) (D) 11.3 (D)	(D) (D) (D) 21.4 (D)	(D) (D) (D) .1 (D)	1.3 (NA) 1.4 CC (NA)	41.0 (NA) 25.4 (D) (NA)
New Jersey New York North Carolina Ohio Ohio Oklahoma	E1 E2 E1 E2	69 91 42 33 14	18 22 21 11 3	1.8 2.5 1.7 CC .3	27.5 32.7 18.7 (D)	1.5 2.0 1.4 (D)	2.9 3.7 2.6 (D) .5	17.2 22.0 13.9 (D) 3.1	68.2 75.0 39.3 (D) 10.3	72.9 63.3 62.8 (D) 31.1	141.0 138.0 101.3 (D) 41.6	1.3 (D) (D) (D) (D)	1.5 2.5 1.5 .8 AA	53.8 62.6 37.7 15.5 (D)
Pennsylvania	E4 E3 - E1	42 13 10 19 40	17 4 4 8 15	1.6 AA EE .9 EE	21.0 (D) (D) 11.6 (D)	1.3 (D) (D) .7 (D)	2.5 (D) (D) 1.3 (D)	14.6 (D) (D) 7.9 (D)	61.3 (D) (D) 34.4 (D)	50.5 (D) (D) 31.6 (D)	111.3 (D) (D) 64.0 (D)	1.0 (D) (D) (D) (D)	1.4 .3 EE BB 1.2	40.2 5.6 (D) (D) 26.8
Utah Virginia Washington Wisconsin	E5 E2 -	5 18 22 8	4 3 3 6	.6 AA .5 .3	7.3 (D) 7.0 4.5	.5 (D) .4 .2	1.0 (D) .6 .4	5.6 (D) 4.5 2.7	18.5 (D) 12.4 10.6	19.8 (D) 19.0 12.9	38.8 (D) 31.1 22.7	.3 (D) .5 (D)	.5 .2 .4 (NA)	13.8 4.0 7.5 (NA)

Note: For qualifications of data, see footnotes on table 1a-1.

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other Government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown for those States where estimated value of shipments data based on administrative-record data account for 10 percent or more of figure shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

*Statistics for some producing States have been withheld to avoid disclosing data for individual companies. However, for States with 150 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

Table 3a. Summary Statistics for the Industry: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Curtains and draperies (SIC 2391)	Housefur- nishings, n.e.c. (SIC 2392)	Textile bags (SIC 2393)	Canvas and related products (SIC 2394)	Pleating and stitching (SIC 2395)	Automotive and apparel trimmings (SIC 2396)	Schiffli machine embroi- deries (SIC 2397)	Fabricated textile products, n.e.c. (SIC 2399)
Companiesnumber_	1 221	867	255	1 261	679	1 534	264	887
All establishments do_ With 1 to 19 employees do_ With 20 to 99 employees do_ With 100 employees or more do_	1 250	944	262	1 273	685	1 559	271	916
	1 011	542	146	1 077	516	1 220	218	605
	184	261	95	178	147	272	42	248
	55	141	21	18	22	67	11	63
Employment and labor costs: Employees	27.1	50.5	8.8	16.7	14.1	44.8	5.9	30.5
	412.2	845.3	143.6	328.4	207.4	1 289.6	115.1	521.0
	342.7	713.7	118.0	270.6	174.4	1 007.9	98.2	430.2
	69.5	131.6	25.6	57.8	32.9	281.7	16.9	90.8
	33.2	69.6	12.8	27.3	16.6	93.3	9.1	44.3
	36.3	62.0	12.8	30.6	16.3	188.4	7.7	46.5
Production workers: 1,000_ Average for year do. March do. May do. August do. November do.	21.4	42.8	7.3	12.6	11.8	35.8	5.0	25.0
	21.0	41.2	7.0	12.6	11.5	36.3	4.9	25.3
	21.5	41.8	7.1	12.5	11.4	35.9	5.0	25.2
	21.4	43.4	7.4	12.6	11.9	34.9	5.0	24.8
	21.6	44.8	7.7	12.5	12.1	35.9	5.0	24.8
Hours millions January to March do April to June do July to September do October to December do	39.3	83.8	13.5	23.8	20.9	67.5	9.6	46.7
	9.5	19.4	3.2	5.8	5.0	17.6	2.4	11.7
	9.9	20.6	3.3	6.1	5.1	16.9	2.4	11.7
	9.8	21.4	3.4	5.9	5.4	16.2	2.4	11.7
	10.0	22.4	3.6	6.0	5.4	16.8	2.4	11.5
Wagesmil dol	230.0	518.6	76.3	171.3	120.1	743.4	71.3	290.1
Value added by manufacture do	720.1	1 759.3	239.9	550.0	396.8	2 053.4	167.0	1 097.2
Cost of materials¹ do_ Materials, parts, containers, etc., consumed² do_ Resales do_ Fuels do_ Purchased electricity do_ Contract work do_	823.6	2 816.4	336.4	525.0	346.1	2 609.8	137.6	1 346.8
	744.9	2 529.5	297.9	478.7	313.5	2 461.6	108.4	1 236.2
	34.9	143.5	31.1	29.0	12.9	69.1	3.3	69.1
	2.3	14.4	1.4	2.1	2.4	14.5	1.1	5.0
	8.0	27.8	3.2	5.6	5.0	29.0	2.3	15.0
	33.5	101.2	2.9	9.6	12.2	35.6	22.6	21.5
Quantity of electric energy used for heat and power: Purchased mil kWh Generated less sold do	137.8	546.8 -	54.7	103.1	77.9	479.4	35.1	273.9

Table 3a. Summary Statistics for the Industry: 1987-Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

ltem	Curtains and draperies (SIC 2391)	Housefur- nishings, n.e.c. (SIC 2392)	Textile bags (SIC 2393)	Canvas and related products (SIC 2394)	Pleating and stitching (SIC 2395)	Automotive and apparel trimmings (SIC 2396)	Schittli machine embroi- deries (SIC 2397)	Fabricated textile products, n.e.c. (SIC 2399)
Total value of shipments mil dol_ Pnmary products do_ Secondary products do_ Miscellaneous receipts, total do_ Value of resales do_ Contract receipts do_ Other miscellaneous receipts do_	1 539.6 1 302.8 79.4 157.3 56.0 96.1 5.3	4 530.0 3 999.5 265.5 265.0 184.1 76.0 4.9	571.5 473.8 46.1 51.6 46.9 3.6 1.1	1 064.7 941.0 55.6 68.2 45.0 10.2 13.0	728.0 592.3 110.4 25.4 17.3 6.9 1.2	4 633.7 4 394.0 58.8 180.9 90.1 82.4 8.5	302.0 246.8 14.6 40.6 5.0 (D)	2 442.1 2 220.9 94.5 126.7 97.5 22.8 6.4
Inventories by stage of fabrication: Beginning of 1987	197.9	655.5	100.9	161.2	92.3	357.4	37.3	315.9
	65.0	287.5	29.1	45.1	46.5	108.6	16.2	112.1
	28.1	135.2	12.8	22.8	14.6	128.5	5.7	69.2
	104.7	232.8	59.0	93.3	31.2	120.3	15.3	134.6
End of 1987	203.4	737.1	107.5	170.4	113.5	401.7	38.2	331.0
	65.0	318.1	33.2	52.4	56.6	137.7	18.8	124.4
	32.3	150.2	13.5	25.8	19.3	128.9	5.9	58.8
	106.1	268.7	60.8	92.2	37.5	135.1	13.6	147.8
Primary product specialization ratiopercent_Coverage ratiodo	94	94	91	94	84	99	94	96
	93	90	87	96	97	96	98	92

Note: For qualifications of data, see footnotes on table 1a-1.

Table 3b. Gross Book Value of Depreciable Assets, Capital Expenditures, Retirements, Depreciation, and Rental Payments: 1987

[Million dollars. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

the state of the s	on onplanation (o, (o,,,,,o, o, o	xppooix.coj					
ltem	Curtains and draperies (SIC 2391)	Housefur- nishings, n.e.c. (SIC 2392)	Textile bags (SIC 2393)	Canvas and related products (SIC 2394)	Pleating and stitching (SIC 2395)	Automotive and apparel trimmings (SIC 2396)	Schiffli machine embroi- deries (SIC 2397)	Fabricated textile products, n.e.c. (SIC 2399)
Gross book value of depreciable assets:								
Beginning of year New capital expenditures¹ Used capital expenditures Retirements	158.5	558.0	92.9	155.4	104.7	760.6	102.3	290.7
	14.9	44.2	5.8	20.1	12.1	115.8	5.9	33.1
	4.3	8.9	2.4	4.0	1.3	8.3	.6	3.9
	8.4	28.2	3.6	4.6	10.6	100.8	8.3	14.3
End of yearBuildings and other structures:	169.3	582.9	97.5	174.8	107.5	783.8	100.6	313.4
Beginning of year New capital expenditures Used capital expenditures Retirements End of year	59.9	204.7	24.4	51.8	32.9	187.0	28.4	80.7
	4.3	7.2	1.1	5.4	2.3	17.7	.4	6.1
	2.7	5.1	1.3	1.8	.9	2.1	.3	2.0
	1.1	6.1	.4	.1	2.7	3.5	5.8	4.6
	65.8	210.9	26.5	58.8	33.4	203.2	23.4	84.2
Machinery and equipment: Beginning of year New capital expenditures¹ Used capital expenditures Retirements End of year	98.7	353.3	68.4	103.6	71.8	573.6	73.9	210.0
	10.5	37.0	4.7	14.7	9.8	98.1	5.5	27.0
	1.6	3.8	1.1	2.2	.4	6.2	.2	1.9
	7.3	22.1	3.2	4.5	7.8	97.3	2.5	9.7
	103.6	372.0	71.0	116.0	74.1	580.6	77.2	229.2
Depreciation charges during 1987: Total Buildings and other structures Machinery and equipment	11.7	45.4	7.1	13.7	8.0	76.7	6.9	21.9
	2.8	12.1	1.2	2.5	2.0	9.0	1.1	3.3
	8.9	33.3	5.9	11.2	6.0	67.7	5.8	18.6
Rental payments: Total Buildings and other structures Machinery and equipment	15.0	33.1	4.0	13.5	9.7	30.6	4.1	26.0
	7.1	18.9	2.3	6.7	4.8	14.0	2.3	15.6
	7.9	14.2	1.6	6.8	4.9	16.6	1.8	10.4

Note: Retirements and depreciation data for establishments not included in the ASM sample were extrapolated from the historical ratio of retirements or depreciation to assets. These ratios were developed at the industry level.

¹Data on purchased services for the repair of buildings and machinery and for communication services are not included in cost of materials, etc., but are shown in table 3c. ²Data on materials consumed by type are shown in table 7. Data on amount purchased or transferred from foreign sources are shown in table 3c.

¹Data on new machinery and equipment expenditures by type are provided in table 3c.

Table 3c. Supplemental Industry Statistics Based on Sample Estimates: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

	Curtains an (SIC	d draperies 2391)	Housefurnis (SIC :			e bags 2393)	proc	nd related lucts 2394)
Item	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)
Purchased services: Cost of purchased services for the repair of— Buildings and other structures Response coverage ratio (percent)² Machinery Response coverage ratio (percent)² Cost of purchased communication services Response coverage ratio (percent)²	.8 27.5 5.1 56.1 1.6 38.1	(X) (X) (X) (X) (X) (X)	4.3 52.1 10.5 55.3 5.1 52.3	\$.6 47.5 1.5 52.0 1.0 46.5	(X) (X) (X) (X) (X) (X)	2.9 44.7 2.8 47.0 2.7 49.6	(X) (X) (X) (X) (X) (X)
New machinery and equipment expenditures	10.5 .9 4.5 5.2 .9	(X) 31 27 29 (X)	37.0 .9 2.8 33.3 1.5	(X) 29 14 2 (X)	4.7 .3 .5 4.0 1.1	(X) 35 19 5 (X)	14.7 4.2 .7 9.7 1.3	(X) 26 23 15 (X)
Cost of materials, components, parts, etc., used	744.9 4.5 740.4 1.3	(X) 57 1 (X)	2 529.5 148.9 2 380.6 1.5	(X) 16 2 (X)	297.9 15.0 282.9 1.5	(X) 21 2 (X)	479.5 34.7 444.8 1.6	(X) 19 3 (X)
	Pleating ar (SIC		Automotive trimm (SIC 2	nings		machine ideries 2397)	product	ed textile ts, n.e.c. 2399)
Item	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimato ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)	Amount (million dollars)	Relative standard error of estimate ¹ (percent)
Purchased services: Cost of purchased services for the repair of— Buildings and other structures ————————————————————————————————————	(S) (S) (S) (S) (S) (S)	(X) (X) (X) (X) (X) (X)	4.5 51.0 41.9 60.4 6.3 54.1	(X) (X) (X) (X) (X)	.1 46.8 .8 54.0 .3 59.2	(X) (X) (X) (X) (X) (X)	2.9 46.7 6.1 49.8 3.1 50.1	(X) (X) (X) (X) (X) (X)
New machinery and equipment expenditures	9.8 .3 .3 9.2 1.7	(X) 44 28 3 (X)	98.1 4.1 4.6 89.4 1.2	(X) 20 17 1 (X)	5.5 .3 .3 4.9 1.7	(X) 24 15 3 (X)	27.0 .6 2.7 23.7 1.6	(X) 60 13 5 (X)
Cost of materials, components, parts, etc., used	313.5 (S) (S) (S)	(X) 14 1 (X)	2 461.6 78.6 2 383.0 1.2	(X) 26 1 (X)	108.4 (S) (S) (S)	(X) 12 3 (X)	1 236.2 60.7 1 175.5 1.5	(X) 13 1 (X)

¹For description of relative standard error of estimate, see Qualifications of the Data in appendixes.
²Measure of extent to which respondents reported each item. Derived for each item by calculating the ratio of weighted employment for those sample establishments that reported the specific inquiry to total employment for all establishments classified in industry. (See appendixes for explanation of sample weight.)
²Detail has been adjusted upwards to account for nonresponse. Inverse of the ratio shown represents a measure of the response to the inquiry. (See appendixes for further explanation.)
⁴Data may understate the true cost of imported parts, components, and supplies since some respondents do not know the origin of these materials. Includes cases where materials were purchased from secondary suppliers or where they were transferred from company-operated warehouses or other distribution points. Direct purchases from foreign suppliers and importers by domestic manufacturing establishments are believed to be reported accurately.

Table 4. Industry Statistics by Employment Size of Establishment: 1987

		All	All em	ployees	Pro	duction wor	kers	Value			New	End-of-
Industry and employment size class	E۱	estab- lish- ments (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	capital expend- itures (million dollars)	year inven- tories (million dollars)
INDUSTRY 2391, CURTAINS AND DRAPERIES												
Total	E2	1 250	27.1	342.7	21.4	39.3	230.0	720.1	8 2 3.6	1 539.6	14.9	203.4
Establishments with an average of-												
1 to 4 employees	E9 E5	569	1.1	11.4	1.0	1.6	8.2	22.6	31.3	53.9	.3	5.4
5 to 9 employees	E5	261	1.7	19.5	1.4	2.5	13.7	36.9	42.0	79.1	.6	7.8
10 to 19 employees	E5 E3	181 132	2.6 3.9	32.7	2.0	3.8	22.1	59.9	64.4	124.4	1.1	13.3
20 to 49 employees 50 to 99 employees	E1	52	3.9	51.9 44.1	3.1 3.0	5.7 5.7	33.5 31.9	93.2 89.1	102.2 101.2	195.5 189.5	1.9 1.5	20.2 31.5
100 to 249 employees	E2	32	4.8	64.2	3.9	7.3	43.4	154.3	150.5	302.2	2.4	40.5
250 to 499 employees	-	18	6.0	75.1	4.2	7.7	48.1	164.1	242.2	407.9	4.4	60.7
500 to 999 employees	-	5	3.4	43.8	2.8	5.0	29.2	100.0	89.9	187.0	2.7	23.9
Covered by administrative records ²	E9	647	1.8	15.7	1.6	2.4	11.3	30.5	44.3	74.8	.4	7.6

Table 4. Industry Statistics by Employment Size of Establishment: 1987—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

[For meaning of abbreviations and symbols, see intr	oduct	ory text. F	1				4					
		All	All em	ployees	Pro	duction wor	rkers	Value added by	C=-1 - 6	Makes of	New capital	End-of- year
Industry and employment size class	E¹	estab- lish- ments (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	expend- itures (million dollars)	inven- tories (million dollars)
INDUSTRY 2392, HOUSEFURNISHINGS, N.E.C.												
Total	E1	944	50.5	713.7	42.8	83.8	518.6	1 759.3	2 816.4	4 530.0	44.2	737.1
Establishments with an average of— 1 to 4 employees	E9	239	.4	5.0	.4	.7	3.6	12.7	25.4	38.1	.2	5.0
5 to 9 employees	E6 E5	138 165	1.0 2.3	12.2 32.6	.8 1.8	1.5 3.6	8.4 21.0	30.7 77.3	58.7 128.3	89.8 206.1	.6 1.1	13.5 30.7
20 to 49 employees	E4 E3	164	5.2 6.9	66.3 93.6	4.4 5.9	8.1 11.3	46.2 66.7	154.3 233.5	227.7 319.8	381.0 551.1	3.9 4.7	53.6 85.3
100 to 249 employees	E1	100	16.3	230.4	13.6	25.7	161.5	536.5	802.7	1 331.9	11.4	214.4
250 to 499 employees	_	32	11.0 7.4	155.0 118.7	9.4 6.6 (D)	18.9 14.1	111.6 99.5	397.0 317.3	536.0 717.8	924.7 1 007.2	10.6 11.8	154.6 179.9
1,000 to 2,499 employees		2	(D)	(D)		(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ²	E9	405	2.2	22.3	1.9	3.4	16.2	55.1	112.9	168.1	.8	22.5
INDUSTRY 2393, TEXTILE BAGS												
Total	E1	262	8.8	118.0	7.3	13.5	76.3	239.9	336.4	571.5	5.8	107.5
Establishments with an average of— 1 to 4 employees	E8	72	.1	1.6	.1	.2	1.0	3.5	5.4	8.9	.1	1.5
5 to 9 employees	E8	38 36	.3 .5	· 3.1 6.4	.2	.4	2.1 3.7	7.5 12.2	8.0 16.2	15.4 28.4	.2	2.6 3.8
20 to 49 employees	E2	57	1.8	24.0	1.4	2.6	15.1	48.7	55.6	103.7	1.1	21.1
50 to 99 employees	E1 -	38 18	2.7 2.6	36.8 34.4	2.3 2. <u>1</u>	4.4 3.6	24.2 22.7	73.9 71.7	126.0 94.0	197.2 164.2	1.3 2.3	35.1 33.1
250 to 499 employees	-	3	.8	11.7	.7	1.5	7.6	22.4	31.3	53.6	.6	10.3
Covered by administrative records ²	E9	101	.4	3.9	.4	.6	2.6	8.8	12.2	21.0	.2	3.6
INDUSTRY 2394, CANVAS AND RELATED PRODUCTS												
Total	E2	1 273	16.7	270.6	12.6	23.8	171.3	550.0	525.0	1 064.7	20.1	170.4
Establishments with an average of—												
1 to 4 employees5 to 9 employees	E9	581 254	1.1	15.5 26.1	.9 1.4	1.7 2.4	10.6 18.2	32.6 50.3	34.3 45.1	66.9 95.3	1.1	8.9 11.5
10 to 19 employees 20 to 49 employees	E2	242 145	3.2 4.3	50.3 70.3	2.4 3.2	4.4 6.1	32.6 43.1	94.4 131.7	79.7 102.1	174.1 232.7	3.0 3.9	21.4 30.7
50 to 99 employees	E3	33	2.2	35.9	1.7	3.3	22.5	69.9	73.9	140.8	3.0 3.3	25.2 35.1
100 to 249 employees	-	11	1.6 2.4	30.0 42.5	1.2 <u>1.9</u>	2.2 3.8	16.1 28.2	61.8 109.3	73.1 116.8	133.2 221.8	4.4	37.6
500 to 999 employees	E9	658	(D) 1.9	(D) 22.1	(D) 1.5	(D) 2.7	(D) 15.1	(D) 45.6	(D) 50.0	(D) 95.6	(D) 1.5	(D) 12.5
INDUSTRY 2395, PLEATING AND												
STITCHING												
Total	E 3	685	14.1	174.4	11.8	20.9	120.1	396.8	346.1	728.0	12.1	113.5
Establishments with an average of— 1 to 4 employees	E8	277	.5	6.5	.4	.7	4.1	13.4	14.8	28.2	.1	3.4
5 to 9 employees	E6	115 124	.8	10.0 20.9	.7	1.1 2.5	6.6	20.1 40.6	21.9	42.0 73.7	.4 1.6	4.5 8.0
10 to 19 employees 20 to 49 employees	E4 E5	107	1.7 3.5	41.3	1.4 3.0	5.1	14.4 29.0	75.5	64.6	140.4	2.2	17.1
50 to 99 employees	E3	40 15	2.8 2.2	31.6 27.1	2.4 1.8	4.2 3.2	23.7 18.5	110.5 57.0	77.2 43.7	185.8 99.9	3.5 .9	25.3 14.8
250 to 499 employees 500 to 999 employees	E1	6	2.6 (D)	37.1 (D)	2.1 (D)	4.0 (D)	23.7 (D)	79.7 (D)	90.7 (D)	158.0 (D)	3.4 (D)	40.5 (D)
Covered by administrative records ²	E9	327	1.0	9.8	.9	1.3	6.2	19.8	21.7	41.5	.3	5.1
INDUSTRY 2396, AUTOMOTIVE AND APPAREL TRIMMINGS												
Total	_	1 560	44.8	1 007.9	35 .8	67.5	743.4	2 053.4	2 609.8	4 633.7	115.8	401.7
Establishments with an average of-												
1 to 4 employees 5 to 9 employees	E5 E5	763 256	1.2 1.7	20.2 23.1	1.0 1.4	1.7 2.3	15.1 17.0	39.3 47.0	65.1 64.3	104.4 111.2	3.1 3.5	7.6 8.0
10 to 19 employees	E2	201	2.8	41.8	2.1	3.7	27.6	90.9	102.9	192.5 340.4	4.8 8.0	21.3 36.8
20 to 49 employees		173 99	5.3 6.8	81.3 100.3	4.2 5.6	7.2 9.8	52.2 69.4	168.6 208.6	174.7 250.2	453.6	9.9	47.9
100 to 249 employees	-	41 15	6.4 5.0	101.5 81.0	5.1 3.7	9.4 6.7	65.1 49.3	279.8 204.6	337.6 232.9	606.1 428.5	6.6 11.2	80.7 66.2
500 to 999 employees	E1 _	4 5	2.7 12.9	55.0 503.6	1.6 11.1	2.8 23.9	29.4 418.2	99.6 914.9	139.2 1 242.8	233.3 2 163.8	4.6 64.1	29.9 103.3
2,500 employees or more	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ²	E6	938	3.0	39.0	2.5	3.9	29.5	75.9	118.4	194.3	6.7	13.2

Table 4. Industry Statistics by Employment Size of Establishment: 1987—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

		All	All employees		Production workers			Value added by			New capital	End-of- year
Industry and employment size class	E1	estab- lish- ments (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	expend- itures (million dollars)	inven- tories (million dollars)
INDUSTRY 2397, SCHIFFLI MACHINE EMBROIDERIES				·								
Total	E2	271	5.9	98.2	5.0	9.6	71.3	167.0	137.6	302.0	5.9	38.2
Establishments with an average of— 1 to 4 employees 5 to 9 employees 10 to 19 employees 20 to 49 employees 50 to 99 employees 100 to 249 employees 500 to 499 employees 500 to 999 employees Covered by administrative records² INDUSTRY 2399, FABRICATED TEXTILE PRODUCTS, N.E.C.	E9 E4 E1 E4 - E1 -	94 68 56 25 17 6 4 1	.2 .5 .8 .8 1.1 .7 .7 1.8 (D)	4.3 7.2 14.8 14.9 16.0 14.3 26.7 (D)	.2 .4 .6 .6 .9 .9 .6 .1.6 (D)	.4 .7 1.2 1.2 1.7 1.2 3.2 (D)	3.0 5.4 10.5 9.7 12.5 8.6 21.7 (D)	5.9 12.3 22.4 20.6 32.9 24.2 48.8 (D) 7.6	7.6 12.0 24.4 22.9 17.0 26.7 27.0 (D)	13.5 24.4 46.6 43.7 49.2 50.3 74.2 (D)	.1 .2 .3 1.0 1.0 .7 <u>2.6</u> (D)	1.3 2.5 4.0 4.7 7.7 4.7 13.3 (D)
Total	E1	916	30.5	430.2	25.0	46.7	290.1	1 097.2	1 346.8	2 442.1	33.1	331.0
Establishments with an average of— 1 to 4 employees	E7 E7 E4 E3 E3 	313 142 150 163 85 40 18 3	.6 1.0 2.0 5.1 5.9 5.7 6.0 4.2 (D)	8.9 13.1 28.3 73.6 78.0 78.2 73.6 <u>76.6</u> (D)	.5 .8 1.6 4.1 4.8 4.5 5.0 3.6 (D)	.9 1.4 3.0 7.5 9.0 8.6 8.9 7.3 (D)	5.4 8.7 19.0 48.2 53.1 50.2 53.7 51.8 (D)	25.3 32.1 63.2 167.4 187.6 210.9 211.2 199.5 (D)	30.2 39.5 65.8 178.1 223.5 263.0 220.9 326.0 (D)	55.3 71.6 128.9 344.5 405.3 471.7 441.6 523.3 (D)	.7 .8 1.6 4.3 5.2 6.2 4.5 <u>9.7</u> (D)	5.7 7.8 14.4 44.9 73.5 73.3 68.1 43.4 (D)
Covered by administrative records ²	E9	388	1.6	16.3	1.4	2.3	11.3	45.0	56.6	101.6	1.1	11.1

Note: For qualifications of data, see footnotes on table 1a-1. Data shown as a (D) are included in underscored figures above.

Payroll and sales data for some small single unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other Government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown for those employment-size classes where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E6—80 to 89 percent; E9—90 percent or more.

**Report forms were not mailed to small single unit companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1987 were obtained from administrative records supplied by other agencies of the Federal Government. Those data were then used in conjunction with industry averages to estimate the items shown. Data are also included in respective employment-size classes shown.

employment-size classes shown.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1987

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Indus- try or			All employees		Pr	oduction worl	ers	Value			New
prod- uct class code	Industry or primary product class	estab- lish- ments (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	capital expend- itures (million dollars)
2391	Curtains and draperies: All establishments in industry	1 250	27.1	342.7	21.4	39.3	230.0	720.1	823.6	1 539.6	14.9
2392	Housefurnishings, n.e.c.: All establishments in industry	944	50.5	713.7	42.8	83.8	518.6	1 759.3	2 816.4	4 530.0	44.2
23921	Establishments with this product class primary: Bedspreads and bedsets (not made in a weaving mill)	50	5.0	67.9	4.0	7.7	47.7	133.4	195.7	327.3	2.9
23922	Sheets and pillowcases (made from purchased										
23923 23924	fabrics) Towels and washcloths (made from woven fabrics) Other housefurnishings	24 14 335	3.8 4.2 30.1	54.0 67.6 436.1	3.4 3.9 25.0	6.8 8.5 48.9	45.3 60.5 299.7	224.4 160.9 1 036.4	395.9 386.1 1 479.7	609.9 528.1 2 501.7	2.5 9.2 26.8
2393	Textile bags: All establishments in industry	262	8.8	118.0	7.3	13.5	76.3	239.9	336.4	571.5	5.8
2394	Canvas and related products: All establishments in industry	1 273	16.7	270.6	12.6	23.8	171.3	550.0	525.0	1 064.7	20.1
2395	Pleating and stitching: All establishments in industry	685	14.1	174.4	11.8	20.9	120.1	396.8	346.1	728.0	12.1
23952 23958	Establishments with this product class primary: Embroideries, except Schiffli machine products Commission embroidering (except Schiffli machine),	135	6.9	94.6	5.6	10.2	63.1	205.2	202.1	393.9	7.3
	tucking, pleating, etc., for the trade	128	4.1	46.8	3.6	6.3	35.4	93.8	62.3	155.6	3.5
2396	Automotive and apparel trimmings: All establishments in industry	1 560	44.8	1 007.9	35.8	67.5	743.4	2 053.4	2 609.8	4 633.7	115.8
23961	Establishments with this product class primary: Men's and boys' suit and coat findings, hatters' fur,							_			
23962 23963	and other hat and cap materials Automobile trimmings Other trimmings and findings	38 43 143	1.5 17.0 8.1	29.1 585.6 123.5	1.2 14.3 6.4	2.1 29.9 10.8	16.7 476.7 78.4	74.4 1 133.1 242.1	161.0 1 453.6 311.6	222.5 2 590.6 551.0	1.5 77.4 6.4
23964	Printing on garments and apparel accessories; stamped art goods ¹	245	10.6	162.1	7.5	13.9	90.1	402.7	467.1	852.4	16.2

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1987—Con.

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Indus- try or		All	All em	ployees	Pr	oduction wor	kers	Value			New
prod- uct class code	Industry or primary product class	estab- lish- ments (number)	Number (1,000)		Cost of materials (million dollars)	Value of shipments (million dollars)	capital experid- itures (million dollars)				
2397	Schiffil machine embroideries: All establishments in industry	271	5.9	98.2	5.0	9.6	71.3	167.0	137.6	302.0	5.9
2399	Fabricated textile products, n.e.c.: All establishments in industry	916	30.5	430.2	25.0	46.7	290.1	1 097.2	1 346.8	2 442.1	33.1

Note: For qualifications of data, see footnotes on table 1a-1.

Table 5b. Industry-Product Analysis—Value of Shipments and Primary Product Shipments and Specialization and Coverage Ratios for the Industry: 1987 and Earlier Census Years

[An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work. Columns A-D show this product pattern for an industry, and column E shows primary product specialization ratio. The extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H and coverage ratio is shown in column I. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

			Valu	ue of shipmer	nts		Value of primary product shipments				
Industry and product group code	Industry and census year	Total (million dollars)	Primary products (million dollars)	Secondary products (million dollars)	Miscel- laneous receipts (million dollars)	Primary product special- ization ratio col. B÷ col. B+C (percent)	Total made in all indus- tries (million dollars)	Made in this industry (million dollars)	Made in other indus- tries (million dollars)	Coverage ratio col. B÷ col. F (percent)	
		А	В	С	D	Е	F	G	Н		
2391	Curtains and draperies	1 539.6 1 062.0 1 013.1	1 302.8 917.0 867.0	79.4 53.7 44.8	157.3 91.3 101.3	94 94 95	1 394.9 1 008.3 936.7	1 302.8 917.0 867.0	92.1 91.4 69.7	93 91 93	
2392	Housefurnishings, n.e.c. 1987 1982 1977	4 530.0 3 262.2 2 293.9	3 999.5 2 872.0 1 922.3	265.5 240.7 227.8	265.0 149.5 143.8	94 92 89	4 428.9 3 299.3 2 202.3	3 999.5 2 872.0 1 922.3	429.4 427.3 280.0	90 87 87	
2393	Textile bags	571.5 421.8 321.8	473.8 340.5 232.9	46.1 45.6 50.6	51.6 35.7 38.3	91 88 82	544.2 409.3 277.8	473.8 340.5 232.9	70.4 68.9 44.9	87 83 84	
2394	Canvas and related products1987	1 064.7 752.3 486.9	941.0 640.8 429.9	55.6 42.4 21.1	68.2 69.1 35.9	94 94 93	983.7 690.9 465.6	941.0 640.8 429.9	42.7 50.2 35.7	96 93 92	
2395	Pleating and stitching 1987	728.0	592.3	110.4	25.4	84	611.0	592.3	18.8	97	
2396	Automotive and apparel trimmings1987	4 633.7	4 394.0	58.8	180.9	99	4 572.1	4 394.0	178.1	96	
2397	Schiffli machine embroideries	302.0 303.3 158.0	246.8 253.8 143.6	14.6 13.1 5.0	40.3 36.4 9.4	94 95 97	251.1 263.7 146.3	246.8 253.8 143.6	4.3 9.8 2.7	98 96 98	
2399	Fabricated textile products, n.e.c	2 442.1 1 475.9 1 145.4	2 220.9 1 322.5 1 032.6	94.5 99.0 65.6	126.7 54.4 47.2	96 93 94	2 411.5 1 458.1 1 158.9	2 220.9 1 322.5 1 032.6	190.6 135.6 126.3	92 91 89	

For 1987, printing on garments and apparel accessories was moved from industry 2395 to industry 2396.

Table 6a-1. Product and Product Classes—Quantity and Value of Shipments by All Producers: 1987 and 1982

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see Value of Shipments in appendixes. For comparability of product classes and product codes between 1982 and 1987, see appendixes. For meaning of abbreviations and symbols, see introductory text]

			1987			1982	
1987		Number of	Product s	hipments ¹	Number of	Product s	hipments ¹
product	Product	companies			companies with shipments		
		shipments of \$100,000		Value (million	of \$100,000		Value (million
		or more	Quantity ²	dollars)	or more	Quantity ²	dollars)
2391	CURTAINS AND DRAPERIES						
	Total	(NA)	(X)	1 394.9	(NA)	(X)	1 008.3
23910 23910 10	Curtains and draperies: Curtains and draperies, knit mil pairs or	00	(0)	451.0	(514)	(2)	(2)
23910 12	Curtains and draperies, woven: Curtains, excluding lace: Wholly or chiefly cotton fabrics	28	(S)	151.0	(NA)	(3)	(3)
	Wholly or chiefly manmade fiber fabrics: Glass fiber fabrics mil pairs or	31	**4.2	60.8	34	*9.4	58.2
23910 15	Rayon and/or acetate do	2 28	(D)	(D)	6	1.1	5.8
23910 19 23910 21	All other manmade fiber	46	(S) **30.8	38.7 212.5	60	**46.4	199.9
23910 25	Other materials, including plastics do Draperies (all lengths):	11	(D)	(D)	13	**4.4	25.6
23910 52	Wholly or chiefly cotton fabrics mil pairs or sets_ Wholly or chiefly manmade fiber fabrics:	106	(S)	114.5	97	(S)	82.1
23910 55	Glass fiber fabrics mil pairs or sets_	8	(S)	5.6	14	(S)	12.8
23910 59	Rayon and/or acetate do	71	*12.6	122.1	7- 190	**18.5	266.8
23910 61 23910 62	All other manmade fiber do Other materials, including plastics do	117 20	(S) (S)	190.2 69.7	23	**6.5	58.6
23910 00	Curtains and draperies, n.s.k., typically for establishments with 5 employees or more (see note)	(NA)	(X)	248.0	(NA)	(X)	232.3
23910 02	Curtains and draperies, n.s.k., typically for establishments with less than 5 employees (see note)	(NA)	(X)	74.3	(NA)	(X)	66.2
2392	HOUSEFURNISHINGS, N.E.C. ⁴						
2332	THOUSE ORNISHINGS, N.E.C.						
	Total	(NA)	(X)	4 428.9	(NA)	(X)	3 299.3
23921 23921 11	Bedspreads and bedsets (not made in a weaving mill) Knitted and/or crocheted bedspreads Tailored bedspreads, except knit: Quilted:	(NA) 3	(X) (D)	363.2 (D)	(NA) (NA)	(X) (⁵)	331.4 (⁵)
23921 14	Wholly or chiefly cotton fabrics (see also code 2211H42) millions_	39	6.4	105.2	18	(D)	(D)
23921 16	Wholly or chiefly manmade fiber fabrics (see also code 2211M21) do	38	**5.0	129.8	(NA)	(D)	(D)
23921 20	Nonquilted: Wholly or chiefly cotton fabrics (see also code 2211H43) millions_	8	(S)	5.2	7	(S)	9.2
23921 21	Wholly or chiefly manmade fiber fabrics (see also code 2221M23) do	10	(S)	30.5	(NA)	1.4	23.0
23921 22	Tufted bedspreads, nontailored: Wholly or chiefly cotton fabrics (see also code		(6)	(6)	(2) (2)	(0)	(7)
23921 24	2211H44) millions Wholly or chiefly manmade fiber fabrics (see also code 2221M25) do	2	(S) (D)	(D) (D)	(NA) (NA)	(S) (D)	(Z) (D)
23921 30	Other bedspreads, nontailored (including quilted, jacquard, etc.) except furted and knit: Wholly or chiefly cotton fabrics (see also code		(6)	(6)	(IVA)	(b)	(D)
23921 31	2211H46) millions_ Wholly or chiefly manmade fiber fabrics (see also code	14	(S)	26.3	9	(D)	(D)
23921 00	2221M27) do_ Bedspreads and bedsets, n.s.k	12 (NA)	*1.9 (X)	37.0 13.5	(NA) (NA)	(D) (X)	(D) 34.8
23922	Sheets and pillowcases (made from purchased fabrics):					, ,	
23922 00	Sheets and pillowcases (made from purchased fabrics) (see also codes 2211H 25 and 2221K) (for additional detail see table 6a-2)	45	(X)	717.8	(NA)	(X)	677.6
23923	Towels and washcloths (made from woven fabrics)	(NA)	(X)	500.6	28	(X)	355.9
23923 10	Woven terry fabrics, including other pile (see also code 2211G 10) (for additional detail see table 6a-2)	19	(X)	480.8		(^)	000.0
23923 13	All other towels and washcloth fabrics, including huck and crash towels, etc. (see also codes 2211G 30 and 2221M			40.5	- 28	(X)	355.9
23923 00	33) Towels and washcloths, n.s.k	4	(X) (X)	19.8			

Table 6a-1. Product and Product Classes—Quantity and Value of Shipments by All Producers: 1987 and 1982—Con.

Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see Value of Shapments in appendixes. For comparability of product classes and product codes between 1982 and 1987, see appendixes. For meaning of abbreviations and symbols, see introductory textl

			1987		1982			
1987		Number of	Product ship	ments ¹	Number of	Product shipn	nents1	
product	Product	companies with			companies with			
0000		shipments of		Value	shipments of		Value	
		\$100,000 or more	Ouantity ²	(million dollars)	\$100,000 or more	Quantity ²	(million dollars	
2392	HOUSEFURNISHINGS, N.E.C.4—Con.							
23924 —	Other housefurnishings	(NA)	(X)	2 326.8	(NA)	(X)	1 556.	
23924 09	Shower bath curtains, including plastics (unsupported film), coated labrics, and all othermillions	26	*20.1	125.9	25	(S)	125.	
	Ouilted products, except bedspreads: Comforters and quilts:							
23924 12	Wholly or chiefly cotton, except down-filled (see also code 2211H 73) millions	17	4.4	84.8	7			
23924 14	Wholly or chiefly manmade fiber, except down-filled (see also code 2221M 71) do	22	13.9	268.6	(NA)	(S)	205.	
23924 16	Down-filled do	7	*3.0	74.1	1			
23924 33 23924 35	Wholly or chiefly cottonmillions	12 17	*1.2 (S)	9.3 74.1	18	(S)	79.	
23924 36 23924 37	Other quilted products	15	(S) (X)	20.6	16	(X)	23.	
	place mats, etc.) mil doz Other table linen:	6	(S)	(D)				
23924 38	Cotton: Tablecloths and napkins mil doz	20	(S)	122.8				
23924 40	Other, including place mats and place mat sets do Linen:	7	(S) (S)	8.3				
23924 41 23924 43	Tablecloths and napkins mil doz Other, including place mats and place mat sets do	4	(S)	2.3	(NA)	(NA)	207.	
23924 46	Manmade fibers: Tablecloths and napkins mil doz	19	*2.2	29.4				
23924 48	Other, including place mats and place mat sets do Other materials (including plastics, etc.):	6	(S)	14.1				
23924 50 23924 51	Tablecloths and napkins mil doz Other, including place mats and place mat sets do	18	*3.4 (S)	52.3 9.2				
23924 54	Other related articles, except lace (dresser covers and scarves, doilies, tray cloths, etc.), including plastics	6	(X)	6.1	13	(X)	17.	
23924 55	Bed pillows: Manmade fiber filled millions	28	1.4	317.0	7 (NA)	(6)	213.	
23924 56	Other materials, including foam do Fancy pillows and cushions:	18	(S)	60.9	(NA)	(S)	213.	
23924 57 23924 59	Foam rubber millions_ Other materials do_	21 47	**28.4 **42.7	41.2 171.6	22 45	(S) (S)	31. 96.	
23924 63	Slipcovers: Furniture (made from fabrics plastics and other material							
23924 65	except paper products) millions_ Mattress, nonquilled do	11 5	(S) (S) 17.9	60.8 13.8	11 5	(S) (S) (S)	19. 7.	
23924 69	Other do Mops and dusters:	12	17.9	47.2	8	(S)	9.	
23924 71	Dry mops and dusters (excluding dusting cloths), including refills millions	21	**8.9	31.3	17	(S)	23.	
23924 73 23924 75	Wet mops (except sponge mops), including refills do Sponge mops do	52 19	**35.4 **25.8	83.3 69.0	44 18	(S) (S) 18.3	53. 50.	
23924 81	Bags (laundry, wardrobe, and shoe bags, including storage bags of textiles with or without external supporting							
	frames)Adult size blankets:	14	(X)	28.8	18	(X)	30.	
23924 82	Wholly or chiefly cotton (see also codes 2211H 62, 2211H 65, 2211H 67, and 22972 43) mil doz	6	(D)	(D)	5	(D)	(D	
23924 91	Wholly or chiefly manmade fiber (see also codes 2221M 41, 2221M 42, 2221M 43, and 22972 45) do	3	(D)	(D)	1	(D)	(0	
23924 92	Wholly or chiefly wool (see also codes 22319 25, 22319 27, 22319 29, and 22972 48) do	4	(D)	(D)	6	(D)	(0	
23924 93	Crib size blankets: Wholly or chiefly cotton (see also codes 2211H 69 and 22972 43)mil doz					.=.		
23924 95	Wholly or chiefly manmade fiber (see also codes 2221M	4	(S)	10.5	6	(D)	(0	
23924 96	47 and 22972 45)do Wholly or chiefly wool (see also codes 22319 31 and	3	(D)	(D)	3	(D)	(0	
23924 99	22972 48)do All other housefurnishings, except embroidered	96	(X)	306.3	50	(X)	179.	
23924 00 23920	Other housefurnishings, n.s.k.	(NA) (NA)	(X)	28.0 520.5	(NA) (NA)	(X) (X)	102. 456.	
23920 00	Housefurnishings, n.e.c., n.s.k. Housefurnishings, n.e.c., n.s.k., typically for establishments with 10 employees or more (see note)	(NA)	(X)	353.8	(NA)	(X)	368.	
23920 02	Housefurnishings, n.e.c., n.s.k., typically for establishments with less than 10 employees (see note)	(NA)	(×)	166.6	(NA)	(X)	88.	
	, , , , , , , , , , , , , , , , , , , ,		()					
2393	TEXTILE BAGS							
	Totaf	(NA)	(X)	544.2	(NA)	(X)	409.	
23930	Textile bags, except laundry, wardrobe, and shoe: Wholly or chiefly cotton fabrics, including cotton canvas							
23930 12	and open-mesh cotton: Duffle bags and knapsacks mil lin yd	25	(S)	22.4	16	(S)	18.	
23930 13 23930 18	Other bags Spun paper mil lin yd_	74 6	*167.9	125.0 52.3	47 5	(S) (S) (S)	51. 11.	
23930 31	Burlap do Wholly or chiefly manmade fiber fabrics:	24	(S) (S)	70.9	33	•	60.	
23930 91 23930 95	Duffle bags and knapsacks mil lin yd Split, polyethylene or polypropylene strip, except duffle do	19 19	*12.5 (S)	35.3 33.6	22	(S)	24. 100.	
23930 96 23930 97	Other manmade fiber fabrics, except duffledo Other fabricsdo	33 35	(S) (S) (S)	63.8 70.5	57 33	(S) (S)	59.	
23930 00	Textile bags, n.s.k., typically for establishments with 5	(NA)	(×)	49.1	(NA)	(X)	69.	

Table 6a-1. Product and Product Classes—Quantity and Value of Shipments by All Producers: 1987 and 1982—Con.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see Value of Shipments in appendixes. For comparability of product classes and product codes between 1982 and 1987, see appendixes. For meaning of abbreviations and symbols, see introductory text]

			1987		1982			
1987		Number of	Product ship	pments ¹	Number of	Product shi	pments ¹	
product	Product	companies with			companies with			
code		shipments		Value	shipments of		Value	
		\$100,000 or more	Quantity ²	(million dollars)	\$100,000 or more	Quantity ²	(million dollars)	
2393	TEXTILE BAGS—Con.	100						
23930	Textile bags, except laundry, wardrobe, and shoe—Con.							
23930 02	Textile bags, n.s.k., typically for establishments with less than 5 employees (see note)	(NA)	(X)	21.3	(NA)	(X)	13.8	
2394	CANVAS AND RELATED PRODUCTS							
2004								
22040	Total	(NA)	(X)	983.7	(NA)	(X)	690.9	
23940 23940 21	Canvas and related products: Awnings	194	(X)	146.2	130	(X)	68.9	
23940 34 23940 36	CampingOther tents, including air supported structures and	28	(X)	82.1	33	(X)	99.9	
	tension structures Tarpaulins and other covers:	39	(X)	98.7	33	(X)	97.7	
23940 53 23940 55	FlatFitted	81 96	(X) (X)	66.7 74.8	89 74	(X) (X)	79.6 54.1	
23940 61	Other canvas products, except bags: Sails	61	(X)	52.5	7			
23940 63 23940 65	Pneumatic mattresses	133	(X) (X)	249.7	(NA)	(X)	117.5	
23940 00	Canvas products, n.s.k., typically for establishments with 5 employees or more (see note)	(NA)	(X)	117.3	(NA)	(X)	118.4	
23940 02	Canvas products, n.s.k., typically for establishments with less than 5 employees (see note)	(NA)	(X)	95.1	(NA)	(X)	54.8	
					\ <i>\</i>	(")		
2395	PLEATING AND STITCHING ⁶							
	Total	(NA)	(X)	611.0	(NA)	(X)	180.3	
23952 23952 00	Embroideries, except Schiffli machine products: Embroideries, except Schiffli machine products	154	(X)	334.3	64	(X)	118.6	
23958	Commission embroidering (except Schiffli machine), tucking, pleating, etc., for the trade	(NA)	(X)	157.6	(NA)	(X)	61.7	
23958 11	Embroidering (other than Schiffli machine) on materials owned by others	68	(X)	80.8	28	(X)	20.2	
23958 33	Contract tucking, pleating, hemstitching, and buttonholing for the trade	66	(X)	76.7	39	(X)	35.1	
23958 00	Commission embroidering (except Schiffli machine), tucking, pleating, and stitching for the trade, n.s.k	-	(X)	_	(NA)	(X)	6.4	
23950	Embroideries, tucking, pleating, and stitching, n.s.k	(NA)	(X)	119.1	(NA)	(X)	(6)	
23950 00	Embroidenes, tucking, pleating, and stitching, n.s.k., typically for establishments with 10 employees or more	414	00		214	0.0	(0)	
23950 02	(see note). Embroideries, tucking, pleating, and stitching, n.s.k., typically for establishments with less than 10 employees	(NA)	(X)	77.7	(NA)	(X)	(e)	
	(see note)	(NA)	(X)	41.5	(NA)	(X)	(e)	
2396	AUTOMOTIVE AND APPAREL TRIMMINGS7							
	Total	(NA)	(X)	4 572.1	(NA)	(X)	2 764.1	
23961	Men's and boys' suit and coat findings, hatters' fur, and other	(,	(.,,		(,	(,		
23961 11	hat and cap materials	(NA) 22	(X)	235.6 216.4	(NA) 30	(X) (X)	183.5 168.4	
23961 53	Hat bands, hat linings, tip printing and stamping, sweats, cap fronts, etc., made for sale as such; and hatters' fur,							
23961 00	cut or blown, for sale as such Men's and boys' coat, suit, trouser findings, hatters' fur,	15	(X)	19.2	19	(X)	15.1	
00000	and other hat and cap materials, n.s.k.	-	(X)	~	(NA)	(X)	-	
23962 23962 00	Automobile trimmings: Automobile trimmings	36	(X)	2 575.3	31	(X)	1 384.3	
23963	Other trimmings and findings	(NA)	(X)	547.3	(NA)	(X)	282.5	
23963 11 23963 12	Trimmings, except automobile: Women's and children's apparel findings and trimmings	88	(X)	309.9	58	(X)	92.5	
	All other, including furniture trimmings	37	(X)	83.9	34	(X)	61.6	
23963 33	fused or sealed edge	32	(X)	69.3	38	(X)	86.0	
23963 33	Ribbons, fused or sealed edge (not woven with fast	00	(S)	84.3	15	(NA) (X)	39.4 3.1	
	edges) mil lin yd	23	(x)	-	(NA)	(^)	0.1	
23963 45	edges)	-	(X)	0706				
23963 45 23963 00	edges] mil lin yd_All other trimmings and findings, n.s.k. Printing on garments and apparel accessories; stamped art goods Printing on garments and apparel accessories, including silk	(NA)	(X)	872.8	(NA)	(X)	489.8	
23963 45 23963 00 23964	edges) mil lin yd_All other trimmings and findings, n.s.k	-	(X)	872.8 810.1 62.7				

Table 6a-1. Product and Product Classes—Quantity and Value of Shipments by All Producers: 1987 and 1982-Con.

Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see Value of Shipments in appendixes. For comparability of product classes and product codes between 1982 and 1987, see appendixes. For meaning of abbreviations and symbols, see introductory text)

			1987		1982			
1987		Number of companies	Product s	shipments ¹	Number of companies	Product s	shipments ¹	
product code	Product	with shipments			with shipments			
		of \$100,000		Value (million	of \$100,000		Value (million	
		or more	Quantity ²	dollars)	or more	Quantity ²	dollars)	
2396	AUTOMOTIVE AND APPAREL TRIMMINGS7—Con.							
23960 — 23960 00	Automotive and apparel trimmings, n.s.kAutomotive trimmings, apparel findings, and related	(NA)	(X)	341.2	(NA)	(X)	8424.0	
23960 02	products, n.s.k., typically for establishments with 10 employees or more (see note) Automotive trimmings, apparel findings, and related	(NA)	(X)	128.0	(NA)	(X)	⁸ 278.1	
20300 02	products, n.s.k., typically for establishments with less than 10 employees (see note)	(NA)	(X)	213.2	(NA)	(X)	⁶ 145.9	
2397	SCHIFFLI MACHINE EMBROIDERIES							
	Total	(NA)	(X)	251.1	(NA)	(X)	263.7	
23970 — 23970 00	Schiffli machine embroideries: Schiffli machine embroideries	141	(X)	232.5	213	(X)	252.4	
23970 02	Schiffli machine embroideries, typically for establishments with less than 5 employees (see note)	(NA)	(X)	18.6	(NA)	(×)	11.2	
2399	FABRICATED TEXTILE PRODUCTS, N.E.C.							
	Total	(NA)	(X)	2 411.5	(NA)	(X)	1 458.1	
23990 — 23990 15	Fabricated textile products, n.e.c.: Automobile seat covers1,000 sets	28	*7 086.8	121.9	30	(S)	65.5	
23990 25	Seat or safety belts, including shoulder harnesses (except leather) thousands_	17	*38 839,6	489.1	15	42 681.0	270.4	
23990 26 23990 27	Diapers: Woven and knitted (see also code 2211H37) mil doz Disposable, nonwoven fabrics and/or combinations	4	(D)	(D)	5	(D)	(D)	
23990 31	thereof (except diaper liners)do_ Sleeping bagsthousands_	1 18	(D) (S)	(D) 134.0	3 21	(D) (S)	(D) 99.4	
23990 41 23990 85	Flags, banners, and similar emblems	100	(X)	211.0 84.9	58 17	(X) (S)	91.7 43.6	
23990 93	Industrial shop towels mil doz	10	(S) 6.1	53.2	'7	901.2	15.1	
23990 95	Carpet tiles (tufted and needle-punched) cut from broadloom mil sq yd	9	(S)	172.9	5	(D)	(D)	
23990 97	Carpet and rugs made from carpeting not made in this plant (cutting, sewing, and binding only)	34	(X)	245.5	223	(X)	522.7	
23990 99 23990 00	All other fabricated textile products	264	(X)	625.2				
23990 02	establishments with 10 employees or more (see note) Fabricated textile products, n.e.c., n.s.k., typically for	(NA)	(X)	157.3	(NA)	(X)	192.1	
	establishments with less than 10 employees (see note)	(NA)	(X)	105.0	(NA)	(X)	32.4	

Note: In 1987 Census of Manufactures, data for establishments of small single unit companies with up to 20 employees were estimated from administrative-records data rather than data actually collected from respondents. Employment cutoffs used for administrative-records for each industry and shipments figures are included in code ending with "002". In both 1987 and 1982 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (five-digit) followed by "000" or to appropriate product group code (four-digit) followed by "000".

**To to 1982, knit or crocheted bedspreads were included with those made of other materials.

*For 1982, knit or crocheted bedspreads were included with those made of other materials.

*For 1982, knit or crocheted bedspreads were included with those made of other materials.

*For 1982, knit or crocheted bedspreads were included with those made of other materials.

*For 1982, knit or crocheted bedspreads were included with those made of other materials.

*For 1982, knit or crocheted bedspreads were included with those made of other materials.

*For 1982, knit or crocheted bedspreads were included with those made of other materials.

*For 1982, knit or 2950 and 2960 were combined.

Table 6a-2. Related Products From Current Industrial Reports Series—Value of Shipments by All Producers: 1987 and 1982

[Additional detail is provided in the Current Industrial Report series. For meaning of abbreviations and symbols, see introductory text]

1987		1987 produc	t shipments	1982 product shipments		
product code	Product	Quantity	Value (million dollars)	Quantity	Value (million dollars)	
	MQ23X, SHEETS, PILLOWCASES, AND TOWELS					
23922	Sheets and pillowcases mil doz	27.6	1 226.9	28.1	1 151.7	
23922 11	Crib size sheets and pillowcases do Sheets, excluding crib:	.5	19.2	.7	20.9	
23922 28	Chiefly polyester blends with cotton mil doz	11.9	720.0	14.1	845.2	
23922 29	All other fabrics do Pillowcases, except crib size:	2.9	221.0	.6	39.4	
23922 46	Chiefly polyester blends with cotton	9.9	195.7	12.1	234.5	
23922 47	Chiefly polyester blends with cotton mil doz All other fabrics do	2.4	71.1	.6	11.7	
23923 10	Finished terry towels and washcloths do	50.5	994.3	41.2	811.8	
	Finished towels:	20				
23923 23	Kitchen mil doz	5.0	46.6	5.2	43.0	
23923 24	Bathdo_	22.1	588.1	19.2	515.0 194.0	
23923 25	Hand, face, guest, and fingertip do	20.9	254.4 27.2	15.5	18.7	
23923 26 23923 27	Bath/tub matsdo All other types, including larger than bath (queen/king size bath towels, bath sheets, beach towels, andbath	.8	21.2	.5	18.7	
	mats) do	1.7	78.0	.9	40.9	
23923 29	Terry washcloths do	25.2	153.0	21.5	114.8	

Table 6a-3. Selected Products Primary to More Than One Industry—Quantity and Value of Shipments by Industry: 1987 and 1982

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) also are included. For further explanation, see Value Shipments in appendixes. For comparability of product classes and product codes between 1982 and 1987, see appendixes. For meaning of abbreviations and symbols, see introductory text]

			1987			1982	
1987		Number of companies	Product si	hipments ¹	Number of companies	Product s	hipments ¹
product code	Product	with			with		
-		shipments		Value	shipments of		Value
		\$100,000 or more	Ouantity ²	(million dollars)	\$100,000 or more	Ouantity ²	(million dollars)
	Bedspreads, woven	(NA)	(X)	403.2	(NA)	(S)	402.8
23921	Made from purchased fabric	(NA) (NA)	(X) (X)	363.2 40.0	(NA) (NA)	(X) (X)	331.4 71.4
	Tailored, quilted: Wholly or chiefly cotton fabrics million_	(NA)	(D)	(D)	(NA)	.9	56.7
23921 14 2211H 42	Made from purchased fabric do_ Made in weaving mills do_	39	6.4 (D)	105.2	18	(D) (D)	(D) (D)
	Wholly or chiefly manmade fiber fabrics do	(NA)	(D)	(D) (D)	(NA)	(NA)	121.8
23921 16 2211M 21	Made from purchased fabric dodo	38	**5.0 (D)	129.8 (D)	(NA)	(D) (D)	(D) (D)
	Tailored, nonquilted:				(212)	` ′	1 1
23921 20	Wholly or chiefly cotton fabric million Made from purchased fabric do	(NA) 8	(D) (S) (D)	(D) 5.2	(NA) 7	(S) (S)	9.2 9.2
2211H 43	Made in weaving mills do	1 (NA)	(D)	(D) 30.5	- (NA)	(S)	23.0
23921 21	Made from purchased fabric do	10	(S) (S) (Z)	30.5	(NA)	(S)	23.0
2221M 23	Made in weaving mills do Nontailored, tufted:	-	(2)	(Z)	-	-	- 1
23921 22	Wholly or chiefly cotton fabric do_ Made from purchased fabric do_	(NA) 2	(D) (S)	(D) (D)	(NA) (NA)	(S) (S)	(Z) (Z)
2211H 44	Made in weaving mills do	-	1 - 1		1		12
23921 24	Wholly or chiefly manmade fiber fabrics do_ Made from purchased fabrics do_	(NA)	(D) (D)	(D) (D)	(NA) (NA)	1.2 (D)	16.2 (D)
2221M 25	Made in weaving mills do Nontailored, except tufted:	-	`	\ <u>-</u>	(NA)	(D)	(D)
	Wholly or chiefly cotton fabric million	(NA)	(D) (S)	(D)	(NA)	2.7	55.7
23921 30 2211H 46	Made from purchased fabric do_ Made in weaving mills do_	14 2	(S) (D)	26.3 (D)	9 2	(D) (D)	(D) (D)
23921 31	Wholly or chiefly manmade fiber fabrics do_ Made from purchased fabrics do_	(NA)	(X)	5Ò.Ó	(NA)	(NA)	85.4
2221M 27	Made in weaving mills do	12 1	*1.9 (D)	37.0 (D)	(NA) 3	(S) (S)	(D) (D)
23921 00	Bedspreads, n.s.k.	-	(x)	-	(NA)	(X)	34.8
23922 00	Sheets and pillowcases Made from purchased fabrics	(NA)	(X) (X)	(D) 717.8	(NA) 32	(NA)	1 156.3 677.6
	Made in weaving mills:	45	` ,			(X)	
2211H 25 2221K 00	Wholly or chiefly cotton fabricsChiefly manmade fibers and silk fabrics	7 4	(X) (X)	209.4 (D)	(NA)	(X) (X)	(D) (D)
	Towels and washcloths	(NA)	(X)	(D)	(NA)	(NA)	964.0
23923 23923 10	Made from purchased fabrics Terry towels and washcloths, including pile	(NA) 17	(X) (X)	500.7 480.8	28 28	(X) (X)	355.9 355.9
23923 13	Other, including huck and crush	4	(x)	19.8	(NA)	(NA)	(NA)
2211G	Made in weaving mills: Chiefly cotton fabrics	(NA)	(X)	(D)	7	(X)	608.1
2211G 10 2211G 30	Terry towels and washcloths, including pileOther, including huck and crush	9 2	(X) (X)	759.1 (D)	7 (NA)	(X) (NA)	608.1 (NA)
2221M 33	Chiefly manmade fibers and silk fabrics	-	(x)	(5)		(X)	(, 4/3)

Table 6a-3. Selected Products Primary to More Than One Industry—Quantity and Value of Shipments by Industry: 1987 and 1982-Con.

[includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) also are included. For further explanation, see Value Shipments in appendixes. For comparability of product classes and product codes between 1982 and 1987, see appendixes. For meaning of abbreviations and symbols, see introductory text]

			1987			1982	
1987		Number of	Product s	hipments1	Number of	Product s	hipments ¹
product code	Product	companies with shipments of \$100,000 or more	Quantity ²	Value (million dollars)	companies with shipments of \$100,000 or more	Quantity ²	Value (million dollars)
23924 82	Blankets, woven Made from purchased fabric mil doz. Made in weaving mills do. Adult size do. Wholly or chiefly cotton fabrics do. Made from purchased fabrics do. Made in weaving mills:	(NA) (NA) (NA) (NA) (NA) (NA)	(X) (S) (S) (D) (S) (D)	240.7 124.7 116.0 (D) (D) (D)	(NA) (NA) (NA) (NA)	(X) 4.2 2.9 2.4 .3 (D)	181.3 102.7 78.6 124.2 31.4 (D)
2211H 62 2211H 65 2211H 67 23924 91	Conventional	4 3 4 (NA) 3	(D) .7 (D) (S) (D)	(D) 20.8 (D) 79.4 (D)	(NA) 2 3 (NA) 1	2.4 (D) (D) (D) (D)	124.2 (D) (D) (D) (D)
2221M 41 2221M 42 2221M 43 23924 92	Conventional mil doz	5 1 3 (NA)	(D) (D) (S) (D)	(D) (D) 7.3 (D) (D)	4 - 1 1 (NA)	1.6 (D) (D) (D)	30.1 (D) (D) (D)
22319 25 22319 27 22319 29	Conventional	4 -	(D) - -	(D) - -	8 - 1	(D) - (D)	(D) - (D)
23924 93 2211H 69	Crib size	(NA) (NA) 4 2 (NA)	(D) (D) (S) (D) (D)	(D) (D) 10.5 (D) (D)	(NA) (NA) 6 2 (NA)	4.6 2.0 (D) (D) .2	57.1 35.1 (D) (D) 11.1
23924 95 2221M 47	Made from purchased fabrics	(NA) 3 1 (NA)	(D) (D) (D)	(D) (D) (D)	(NA) (NA) (NA) (NA)	(D) (D) (D)	(D) (D) (D)
23924 96 22319 31	Made from purchased fabricdo Made in weaving mills do	-	(D)	(D)	1	(D)	(D)
	Quilted products, except bedspreads. Comforters and quiltsmillion_ Made from purchased fabrics:	(NA) (NA)	(X) (D)	(D) (D)	(NA) (NA)	(X) (D)	330.8 (D)
23924 12 23924 14 23924 16	Wholly or chiefly cotton, except downfilledmillion_ Wholly or chiefly manmade fiber fabrics, except downfilleddo Downfilleddo	17 22	4.4 13.9 *3.0	84.8 268.6 74.1	- 40	8.8	196.7
2211H 73 2221M 71	Made in weaving mills: Wholly or chiefly cotton fabricsmillion_ Wholly or chiefly manmade fiber fabricsdo_ Other quilted products Made from purchased fabrics:	1 (NA)	(D) (X)	(D) (D)	(NA) (NA) (NA)	(D) (D) (X)	(D) (D) (D)
23924 33 23924 35 23924 36	Mattress protectors: Wholly or chiefly cotton fabrics million_ Other fabrics do_ Other quilted products	12 17 15	*1.2 (S) (X)	9.3 74.1 20.6	16 (NA) (NA)	(S) (NA) (X)	79.7 (NA) 31.9
2211H 75 2221M 77	Made in weaving mills: Wholly or chiefly cotton fabrics Wholly or chiefly manmade fiber fabrics Diapers Made from purchased fabrics: mil doz_	4 1 (NA)	(X) (X) (S)	32.8 (D) 34.8	(NA) (NA) (NA)	(X) (X) (S)	(D) (D) 42.5
23990 26 23990 27 2211H 37	Woven and knitted mil doz Disposable (nonwoven fabrics or combination thereof) do Made in weaving mills do	4 1 1	(D) (D) (D)	(D) (D) (D)	(NA) (NA) 1	(D) (D) (D)	(D) (D) (D)

¹Data reported by all producers, not just those with shipments of \$100,000 or more.
²For some establishments, data have been estimated from central unit values which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * 10 to 19 percent estimated; ** 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

Table 6b. Product Classes—Value of Shipments by All Producers for Specified States: 1987 and 1982

[Million dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than \$2 million in product class supprents or they disclose data for individual companies in 1987. For meaning of abbreviations and symbols, see introductory text. For comparability of product classes and product codes between 1982 and 1987 and explanation of terms, see appendixes]

Product class and geographic area	1987 value of product shipments	1982 value of product shipments		1987 value of product shipments	1982 value of product shipments
23921, BEDSPREADS AND BEDSETS (NOT MADE IN A WEAVING MILL)			23921, BEDSPREADS AND BEDSETS (NOT MADE IN A WEAVING MILL)—Con.		
United States	363.2	331.4			
California	25.9 12.1 32.1 8.9	52.3 5.1	New York North Carolina South Carolina	70.2 84.8 47.8 6.8	78.7 62.8 31.8 5.0

Table 6b. Product Classes—Value of Shipments by All Producers for Specified States: 1987 and 1982—Con.

[Million dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 1987. For meaning of abbreviations and symbols, see introductory text. For comparability of product classes and product codes between 1982 and 1987 and explanation of terms, see appendixes]

between 1962 and 1967 and explanation of terms, see a	appendixes				
Product class and geographic area	1987 value of product shipments	1982 value of product shipments	Product class and geographic area	1987 value of product shipments	1982 value of product shipments
23922, SHEETS AND PILLOWCASES (MADE FROM PURCHASED FABRICS)			23958, COMMISSION EMBROIDERING (EXCEPT SCHIFFLI MACHINE), TUCKING, PLEATING, ETC., FOR THE TRADE		
United States	717.8	677.6	United States	157.6	61.7
			California	20.0	(NA)
			Florida	4.4	(NA) (NA)
23923, TOWELS AND WASHCLOTHS (MADE			Massachusetts	3.2	(NA)
23923, TOWELS AND WASHCLOTHS (MADE FROM WOVEN FABRICS)			New Jersey	20.3	(NA)
11. 75. 4 (0.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	500.6	255.0	New YorkNorth Carolina	40.6 21.0	(NA) (NA)
United States	500.6	355.9	Texas	9.1	(NA)
South Carolina	17.8	(NA)	23961, MEN'S AND BOYS' SUIT AND COAT		
Tennessee	2.2	(NA)	FINDINGS, HATTERS' FUR, AND OTHER HAT AND CAP MATERIALS		
23924, OTHER HOUSEFURNISHINGS			United States	235.6	183.5
23924, OTHER HOUSEFORNISHINGS			New Jersey	4.3	5.1
United States	2 326.8	1 477.6	New York	33.8	17.2
			23962, AUTOMOBILE TRIMMINGS		
Alabama	48.9 4.4	17.9 (NA)	United States	2 575.3	1 384.3
ArizonaArkansas	22.3	5.0	California	30.9	13.3
CaliforniaConnecticut	250.5 20.1	186.9 20.6	Maine	24.5	(NA)
Cominectical	20.1	20.0	Michigan	2 172.8 280.3	1 188.7 (NA)
Florida	33.9	12.8		200.5	(14/1)
Georgia	136.6 129.3	95.2 99.9	23963, OTHER TRIMMINGS AND FINDINGS		
Indiana	31.4	7.6	United States	547.3	282.5
Kansas	8.8	(NA)	California	33.2	15.7
Kentucky	82.8	(NA)	Florida Maryland	3.0 30.2	(NA) (NA)
Massachusetts	53.2	39.7	Massachusetts	48.1	55.7
Minnesota Mississippi	12.9 71.8	(NA) (NA)	New Jersey	109.7	21.2
Missouri	8.6	13.1	New York	118.4	93.5 21.6
			Pennsylvania	21.3	8.2
New JerseyNew York	154.4 198.4	123.4 165.5	Tennessee	82.9 4.2	(NA) 10.4
North Carolina	456.7	221.4			
Ohio Pennsylvania	85.2 89.8	55.0 68.2	23964, PRINTING ON GARMENTS AND APPAREL ACCESSORIES; STAMPED ART GOODS		
Rhode Island	4.5 103.9	(NA) 73.9	United States	872.8	489.8
South Carolina Tennessee	27.6	23.9	Alabama	3.3	(NA)
Texas Virginia	84.1 27.5	49.1 (NA)	California	176.9	(NA)
*" y" "d	27.0	(1471)	Colorado	5.8 96.4	(NA) (NA)
23952, EMBROIDERIES, EXCEPT SCHIFFLI MACHINE PRODUCTS			Florida Georgia	10.8	(NA)
MACHINE PRODUCTS			Illinois	19.5	(NA)
United States	334.3	118.6	lowa Massachusetts Michigan	17.1 19.8 2.1	(NA) (NA) (NA)
California	68.2	(NA)	Minnesota	13.5	(NA)
Florida	2.4 2.7	(NA)	Missouri	23.1	(NA)
GeorgiaIndiana	3.9	(NA) (NA)	Nebraska	2.5 36.2	(NA) (NA)
Massachusetts	7.3	(NA)	New York	109.3	(NA)
New Jersey	39.6	(NA)	North CarolinaPennsylvania	43.7 21.3	(NA) (NA)
New York	20.4	(NA)	South Carolina	4.5	(NA)
North Carolina	51.1 10.7	(NA) (NA)	Tennessee	13.9	(NA) (NA)
PennsylvaniaSouth Carolina	34.9	(NA)	Virginia	11.1	(NA) (NA)
Texas	4.0 5.7	(NA) (NA)	Washington	16.8 13.0	(NA) (NA)

Table 6c. Historical Statistics for Product Classes-Value Shipped by All Producers: 1987 and Earlier Years

[Million dollars. For meaning of abbreviations and symbols, see introductory text. For comparability of product classes and product codes between 1982 and 1987 and explanation of terms, see appendixes]

1987 product code	Product class	1987	19861	19851	19841	19831	1982	1977	1972
2391- 23910	Curtains and draperies	1 394.9 1 394.9	1 426.7 1 426.7	1 268.2 1 268.2	1 249.0 1 249.0	1 058.6 1 058.6	1 008.3 1 008.3	936.7 936.7	626.2 626.2
2392- 23921 23922 23923 23924 23920	Housefurnishings, n.e.c. Bedspreads and bedsets (not made in a weaving mill) Sheets and pillovacaes (made from purchased fabrics) Towels and washcloths (made from woven fabrics) Other housefurnishings Housefurnishings, n.e.c., n.s.k.	4 428.9 363.2 717.8 500.6 2 326.8 520.5	3 968.8 390.9 682.9 420.4 2 043.1 423.4	3 905.4 375.7 813.5 394.4 1 933.1 388.7	3 668.3 340.3 740.6 433.1 1 689.1 465.2	3 596.4 359.7 775.5 423.0 1 677.5 360.7	3 299.3 331.4 677.6 355.9 1 477.6 456.8	2 202.3 300.4 479.5 276.6 885.8 260.0	1 442.3 266.6 318.5 84.0 577.7 195.5
2393- 23930	Textile bags	544.2 544.2	493.2 493.2	486.4 486.4	468.4 468.4	441.4 441.4	409. 3 409.3	277 .8 277.8	231.5 231.5
2394- 23940	Canvas and related products Canvas and related products	983.7 983.7	923.0 923.0	8 78.5 878.5	8 77. 8 877.8	736.2 736.2	6 90.9 690.9	465. 6 465.6	272.1 272.1
2395- 23952 23958	Pleating and stitching ² Embroideries, except Schiffli machine products Commission embroidering (except Schiffli machine), tucking,	611.0 334.3	(NA) (NA)	(NA) (NA)	(NA) (NA)	(NA) (NA)	18 0.3 118.6	(NA) (NA)	(NA) (NA)
23950	pleating, etc., for the trade	157.6 119.1	(NA) (NA)	(NA) (NA)	(NA) (NA)	(NA) (NA)	61.7 (3)	(NA) (NA)	(NA) (NA)
2396- 23961	Automotive and apparel trimmings ² Men's and boys' suit and coat findings, hatters' fur, and other hat	4 572.1	(NA)	(NA)	(NA)	(NA)	2 764.1	(NA)	(NA)
23962 23963 23964 23960	and cap materials Automobile trimmings Other trimmings and findings Printing on garments and apparel accessories; stamped art goods Automotive and apparel trimmings, n.s.k.	235.6 2 575.3 547.3 872.8 341.2	214.2 2 376.7 448.6 (NA) (NA)	206.9 2 353.5 349.6 (NA) (NA)	206.8 2 222.7 386.6 (NA) (NA)	212.8 1 913.7 292.2 (NA) (NA)	183.5 1 384.3 282.5 489.8 3424.0	104.4 1 737.7 187.4 (NA) (NA)	94.2 822.3 147.4 (NA) (NA)
2397- 23970	Schiffli machine embroideriesSchiffli machine embroideries	251.1 251.1	226.1 226.1	216.4 216.4	249.0 249.0	222. 6 222.6	263.7 263.7	146.3 146.3	99 .1 99.1
2399- 23990	Fabricated textile products, n.e.c. Fabricated textile products, n.e.c.	2 411.5 2 411.5	2 071.8 2 071.8	2 199.7 2 199.7	2 150.1 2 150.1	1 692.6 1 692.6	1 458.1 1 458.1	1 158.9 1 158.9	733.9 733.9

¹Figures are estimates derived from a representative sample of manufacturing establishments. Standard errors associated with estimates are published in annual survey of manufactures publications for this period.

²See table 6a-1 footnotes for qualifications of data.

³Data for 23950 were combined with that for 23960 for 1982.

Table 7. Materials Consumed by Kind: 1987 and 1982

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see Cost of Materials in appendixes. For meaning of abbreviations and symbols, see introductory text]

1987		19	87	19	982
material code	Material	Quantity ¹	Delivered cost (million dollars)	Ouantity ¹	Delivered cost (million dollars)
	INDUSTRY 2391, CURTAINS AND DRAPERIES				
	Materials, containers, and supplies	(X)	744.9	(X)	568.9
221101 222101 222105 222105 222104 220127 224111 228015 282014 229593 308507 970099 971000	Broadwoven fabrics: Cotton	*66.6 *48.5 (S) *181.5 *117.2 (S) (S) (S) **1.3 (X) (X)	78.1 77.8 2.7 106.8 129.9 10.8 55.0 15.1 1.3 2.6 60.3 204.6	**38.5 **36.4 (S) *130.2 *50.7 (3) (3) (9) (7) (2) (2) (3) (X) (X)	42.0 53.6 1.8 131.7 69.9 (3) (3) (3) (3) (3) 6.6 352.8 216.5
	Materials, containers, and supplies	(X)	2 529.5	(X)	1 849.5
221101 222101 222105 222104 220127 224111 228015 282014 229503 308007	Broadwoven fabrics: Cotton Rayon and acetate Odo Hylon Other Other Odo Narrow fabrics Varns, all fibers Mannade fibers (staple and tow) Plastics coated, impregnated, or laminated fabrics tubes, and other shapes All other materials, containers, and supplies Materials, containers, and supplies	(S) (S) (S) (S) (S) (S) (S) (S) (S) 298.0 (X) (X)	596.7 8.9 4.3 356.8 392.7 30.1 48.1 204.6 46.7 21.5 412.0 407.0	*203.4 (S) (S) *297.2 **154.5 (?) (**48.3 (S) (X) (X)	262.7 19.4 6.1 316.0 166.1 (3) (3) 40.4 22.9 21.5 3409.8 584.6

Table 7. Materials Consumed by Kind: 1987 and 1982—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see Cost of Materials in appendixes. For meaning of abbreviations and symbols, see introductory text]

1987		198	7	1982		
material code	Material	Quantity ¹	Delivered cost (million dollars)	Quantity ¹	Delivered co (millio dollar:	
	INDUSTRY 2393, TEXTILE BAGS					
	Materials, containers, and supplies	(X)	297.9	(X)	224	
21101	Broadwoven fabrics:	(S)	48.0	(S)	16	
22101	Nylondo	(S) (S) (S) (S) (S) (S)	1.7 15.5	(3) (S) (S) (S)	.3	
22104 20127 24111	Polyester	(S) (S)	9.3 32.4 7.6	(S) (S) *16.0	10	
28015 32014	Yarns, all fibersmil lb	(S) (S)	12.4 15.6	(3) (3) (S)	1	
29503 08007	Plastics coated, impregnated, or laminated fabrics1,000 sq yd Plastics products consumed in the form of sheets, rods,	10.5	16.8			
0099	tubes, and other shapes	(X) (X)	2.5 88.1 48.0	(X) (X) (X)	³ 4	
	INDUSTRY 2394, CANVAS AND RELATED PRODUCTS					
	Materials, containers, and supplies	(X)	478.7	(X)	33	
21101	Broadwoven fabrics: Cotton mil lin yd_	(5)	58.4	*23.8	3	
2101	Rayon and acetate do Nylon do do	(S) *.8 (S)	3.1 11.0	*6.9	1	
2104	Polyesterdo Otherdo	10.6 (S)	21.0 23.2	*15.7 (S)	1	
24115 28015	Narrow fabrics	(S) (S)	5.4 6.2	(3)		
2014 9503 8007	Manmade fibers (staple and tow)	(S) **17.8	.8 45.1	••••	2	
0099	tubes, and other shapes All other materials, containers, and supplies	(X) (X)	3.1 95.0	(X) (X)	³ 10	
1000	Materials, containers, and supplies, n.s.k	(X)	206.3	(X)	14	
	INDUSTRY 2395, PLEATING AND STITCHING					
	(Material data were not collected for this industry.)					
	INDUSTRY 2396, AUTOMOTIVE AND APPAREL TRIMMINGS					
	Materials, containers, and supplies	(X)	2 461.6	(NA)	(N	
1103	Broadwoven fabrics: Cotton mil lin yd_	(S)	123.7	(NA)	(1)	
2104 0128	Rayon and acetate	*54.9 (S) *116.9	48.5 211.5 205.2	(NA) (NA) (NA)	(I (I (i	
4111 9503	Narrow fabrics do Plastics coated, impregnated, or laminated fabrics 1,000 sq yd	(S) (S)	31.7 230.0	(NA) (NA)	í) (I	
2104 8007	Plastics resins consumed in the form of granules, pellets, liquids, etcmil lbmil lb	(S)	84.6	(NA)	1)	
0099	All other materials, containers, and supplies	(X) (X)	30.5 1 153.5	(NA) (NA)	1) 1)	
1000	Materials, containers, and supplies, n.s.k	(×)	342.4	(NA)	1)	
	INDUSTRY 2397, SCHIFFLI MACHINE EMBROIDERIES					
	(Material data were not collected for this industry.)					
	INDUSTRY 2399, FABRICATED TEXTILE PRODUCTS, N.E.C.					
	Materials, containers, and supplies	(X)	1 236.2	(X)	78	
1101	Broadwoven fabrics: Cotton mil lin yd	*37.9	32.2	(S)	2	
2101 2105 2104	Rayon and acetate	(S) **34.2 *60.0	1.6 53.5 80.4	*10.2 **47.2	5: 4:	
0127 4111	Other do Narrow fabrics do	(S) (S)	67.6 61.8	(S) (S) (S) (P) (S) (S)	4. 19 40	
8015	Yarns, all fibersmil lb	70.3	50.8	(0)	7	

Table 7. Materials Consumed by Kind: 1987 and 1982—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see Cost of Materials in appendixes. For meaning of abbreviations and symbols, see introductory text]

1987		19	87	1982			
matenal code	Material	Quantity ¹	Delivered cost (million dollars)	Quantity ¹	Delivered cost (million dollars)		
	INDUSTRY 2399, FABRICATED TEXTILE PRODUCTS, N.E.C.—Con.						
308007 970099 971000	Plastics products consumed in the form of sheets, rods, tubes, and other shapes	(X) (X) (X)	50.1 550.6 224.3	(X) (X) (X)	13.6 ³ 260.1 303.6		

¹For some establishments, data have been estimated from central unit values which are based on quantity-cost relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * 10 to 19 percent estimated; ** 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

²Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

³For 1982, these material codes were included with material code 970099.

APPENDIX A. Explanation of Terms

This appendix is in two sections. Section 1 includes items requested of all establishments mailed census of manufactures forms including annual survey of manufactures (ASM) forms. Note that this section also includes several items (number of establishments and companies, value added, classes of products, and specialization and coverage ratios) not included on the report forms but derived from information collected on the forms. Section 2 covers supplementary items requested only from establishments included in the ASM sample. Results of the supplementary ASM inquiries are included in table 3c of this report.

SECTION 1. ITEMS COLLECTED OR DERIVED BASED ON ALL CENSUS OF MANUFACTURES (INCLUDING ASM) REPORT FORMS

Number of establishments and companies—As discussed in the Introduction, a separate report was required for each manufacturing establishment (plant) with one employee or more. An establishment is defined as a single physical location where manufacturing is performed. A company, on the other hand, is defined as a business organization consisting of one establishment or more under common ownership or control.

If the company operated at different physical locations, even if the individual locations were producing the same line of goods, a separate report was requested for each location. If the company operated in two or more distinct lines of manufacturing at the same location, a separate report was requested for each activity.

An establishment not in operation for any portion of the year was requested to return the report form with the proper notation in the "Operational Status" section of the form. In addition, the establishment was requested to report data on any employees, capital expenditures, inventories, or shipments from inventories during the year.

In this report, data are shown for establishments in operation at any time during the year. A comparison with the number of establishments in operation at the end of the year will be provided in the Introduction of the General Summary subject report.

Employment and related items—The report forms requested separate information on production workers for a specific payroll period within each quarter of the year and on other employees as of the payroll period which included the 12th of March.

All employees—This item includes all full-time and part-time employees on the payrolls of operating manufacturing establishments during any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods.

Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded. The "all employees" number is the average number of production workers plus the number of other employees in mid-March. The number of production workers is the average for the payroll periods including the 12th of March, May, August, and November.

Production workers—This item includes workers (up through the line-supervisor level) engaged in fabricating, processing, assembling, inspecting, receiving, storing, handling, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial and guard services, product development, auxiliary production for plant's own use (e.g., power plant), recordkeeping, and other services closely associated with these production operations at the establishment covered by the report. Employees above the working-supervisor level are excluded from this item.

All other employees—This item covers nonproduction employees of the manufacturing establishment including those engaged in factory supervision above the line-supervisor level. It includes sales (including driver salespersons), sales delivery (highway truck drivers and their helpers), advertising, credit, collection, installation and servicing of own products, clerical and routine office function, executive, purchasing, financing, legal, personnel (including cafeteria, medical, etc.), professional, and technical employees. Also included are employees on the payroll of the manufacturing establishment engaged in the construction of major additions or alterations to the plant and utilized as a separate work force.

In addition to reports sent to operating manufacturing establishments, information on employment during the payroll period which included March 12 and annual payrolls also was requested of auxiliary units (e.g., administrative offices, warehouses, and research and development laboratories) of multiestablishment companies. However, these figures are not included in the totals for individual

industries shown in this report. They are included in the general summary and geographic area reports as a separate category.

Payroll—This item includes the gross earnings of all employees on the payroll of operating manufacturing establishments paid in the calendar year 1987. Respondents were told they could follow the definition of payrolls used for calculating the Federal withholding tax. It includes all forms of compensation, such as salaries, wages, commissions, dismissal pay, bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations; it excludes payments to proprietors or partners of unincorporated concerns. Also excluded are payments to members of Armed Forces and pensioners carried on the active payroll of manufacturing establishments.

The census definition of payrolls is identical to that recommended to all Federal statistical agencies by the Office of Management and Budget. It should be noted that this definition does not include employers' Social Security contributions or other nonpayroll labor costs, such as employees' pension plans, group insurance premiums, and workers' compensation.

The ASM provides estimates of employers' supplemental labor costs, both those required by Federal and State laws and those incurred voluntarily or as part of collective bargaining agreements. (Supplemental labor costs are explained later in this appendix.)

As in the case of employment figures, the payrolls of separate auxiliary units of multiestablishment companies are not included in the totals for individual industries or industry groups.

Production-worker hours—This item covers hours worked or paid for at the plant, including actual overtime hours (not straight-time equivalent hours). It excludes hours paid for vacations, holidays, or sick leave.

Cost of materials—This term refers to direct charges actually paid or payable for items consumed or put into production during the year, including freight charges and other direct charges incurred by the establishment in acquiring these materials. It includes the cost of materials or fuel consumed, whether purchased by the individual establishment from other companies, transferred to it from other establishments of the same company, or withdrawn from inventory during the year.

The important components of this cost item are (1) all raw materials, semifinished goods, parts, containers, scrap, and supplies put into production or used as operating supplies and for repair and maintenance during the year, (2) electric energy purchased, (3) fuels consumed for heat, power, or the generation of electricity, (4) work done by

others on materials or parts furnished by manufacturing establishments (contract work), and (5) products bought and resold in the same condition. (See discussion of duplication of data below.)

Specific materials consumed—In addition to the total cost of materials, which every establishment was required to report, information also was collected for most manufacturing industries on the consumption of major materials used in manufacturing. The inquiries were restricted to those materials which were important parts of the cost of production in a particular industry and for which cost information was available from manufacturers' records. Information on the establishments consuming less than a specified amount (usually \$10,000) of a specific material were not requested to report consumption of that material separately. Also, the cost of materials for the small establishments for which either administrative records or short forms were used was imputed as "not specified by kind." (See the introduction for the importance of administrative records in the industry.)

Value of shipments—This item covers the received or receivable net selling values, f.o.b. plant (exclusive of freight and taxes), of all products shipped, both primary and secondary, as well as all miscellaneous receipts, such as receipts for contract work performed for others, installation and repair, sales of scrap, and sales of products bought and resold without further processing. Included are all items made by or for the establishments from materials owned by it, whether sold, transferred to other plants of the same company, or shipped on consignment. The net selling value of products made in one plant on a contract basis from materials owned by another was reported by the plant providing the materials.

In the case of multiunit companies, the manufacturer was requested to report the value of products transferred to other establishments of the same company at full economic or commercial value, including not only the direct cost of production but also a reasonable proportion of "all other costs" (including company overhead) and profit. (See discussion of duplication of data below.)

Individual products—As in previous censuses, data were collected for most industries on the quantity and value of individual products shipped. In the 1987 census program, information was collected on the output of approximately 11,000 individual product items. The term "product", as used in the census of manufactures, represents the finest level of detail for which output information was requested. Consequently, it is not necessarily synonymous with the term "product" as used in the marketing sense. In some cases, it may be much more detailed and, in other cases, it is more aggregative. For example, "pharmaceutical preparations" was distributed into over 100 terms; whereas, "motor gasoline" was reported as a single item.

Approximately 6,600 of the product items were listed separately on the 1987 census report forms. Data for

about 4,400 products were obtained in the monthly, quarterly, or annual surveys comprising the Current Industrial Reports series of the Census Bureau. Totals for the year 1987 for these items, as derived from the commodity surveys, are shown in the "products shipped" table (table 6a-2).

The list of products for which separate information was collected was prepared after consultation with industry and government representatives. Comparability with previous figures was given considerable weight in the selection of product categories so that comparable 1982 information is presented for most products.

Typically, both quantity and value of shipments information were collected. However, if quantity was not significant or could not be reported by manufacturers, only value of shipments was collected.

Shipments include both commercial shipments and transfers of products to other plants of the same company. For industries in which a considerable portion of the total shipments is transferred to other plants of the same company, separate information on interplant transfers also was collected. Moreover, for products that are used to a large degree within the same establishment as materials or components in the fabrication of other products, total production and often consumption of the item within the plant was collected. Typically, the information on production also was collected for products for which there are significant differences between total production and shipments in a given year because of wide fluctuations in finished goods inventories. Other measures of output of products with long production cycles were used as appropriate and feasible.

Classes of products—To summarize the product information, the separate products were aggregated into classes of products that, in turn, were grouped into all primary products of each industry. The code structure used is a seven-digit number for the individual product, a five-digit number for the class of product, and a four-digit number for the total primary products in an industry. (See Introduction, Industry Classification of Establishments, for application of the coding structure to the assignment of SIC codes for establishments.)

In the 1987 census, the 11,000 products were grouped into approximately 1,500 separate classes on the basis of general similarity of manufacturing processes, types of materials used, and the like. However, the grouping of products was affected by the economic significance of the class and, in some cases, dissimilar products were grouped because the products were not sufficiently significant to warrant separate classes.

Duplication in cost of materials and value of shipments— The aggregate of the cost of materials and value of shipments figures for industry groups and for all manufacturing industries includes large amounts of duplication since the products of some industries are used as materials by others. This duplication results, in part, from the addition of related industries representing successive stages in the production of a finished manufactured product. Examples are the addition of flour mills to bakeries in the food group and the addition of pulp mills to paper mills in the paper and allied products group of industries. Estimates of the overall extent of this duplication indicate that the value of manufactured products exclusive of such duplication (the value of finished manufactures) tends to approximate two-thirds of the total value of products reported in the annual survey.

Duplication of products within individual industries is significant within a number of industry groups, e.g., machinery and transportation industries. These industries frequently include complete machinery and their parts. In this case, the parts made for original equipment are materials consumed for assembly plants in the same industry.

Even when no significant amount of duplication is involved, value of shipments figures are deficient as measures of the relative economic importance of individual manufacturing industries or geographic areas because of the wide variation in ratio of materials, labor, and other processing costs of value of shipments, both among industries and within the same industry.

Before 1962, cost of materials and value of shipments were not published for some industries which included considerable duplication. Since then, these data have been published for all industries at the United States level and beginning in 1964, for all geographic levels.

Value added by manufacture—This measure of manufacturing activity is derived by subtracting the cost of materials, supplies, containers, fuel, purchased electricity, and contract work from the value of shipments (products manufactured plus receipts for services rendered). The result of this calculation is adjusted by the addition of value added by merchandising operations (i.e., the difference between the sales value and the cost of merchandise sold without further manufacture, processing, or assembly) plus the net change in finished goods and work-in-process between the beginning- and end-of-year inventories.

For those industries where value of production is collected instead of value of shipments (see footnote in table 1a), value added is adjusted only for the change in work-in-process inventories between the beginning and end of year. For those industries where value of work done is collected, the value added does not include an adjustment for the change in finished goods or work-in-process inventories.

"Value added" avoids the duplication in the figure for value of shipments that results from the use of products of some establishments as materials by others. Value added is considered to be the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

New and used capital expenditures—For establishments in operation and any known plants under construction, manufacturers were asked to report their new expenditures for (1) permanent additions and major alterations to

manufacturing establishments, and (2) machinery and equipment used for replacement and additions to plant capacity if they were of the type for which depreciation accounts were ordinarily maintained.

The totals for new expenditures include expenditures leased from nonmanufacturing concerns through capital leases, new facilities owned by the Federal Government but operated under contract by private companies, and plant and equipment furnished to the manufacturer by communities and nonprofit organizations. Also excluded are expenditures for used plant and equipment (although reported in the census), expenditures for land, and cost of maintenance and repairs charged as current operating expenses.

Manufacturers also were requested to report the value of all used buildings and equipment purchased during the year at the purchase price. For any equipment or structure transferred for the use of the reporting establishment by the parent company or one of its subsidiaries, the value at which it was transferred to the establishment was to be reported. Furthermore, if the establishment changed ownership during the year, the cost of the fixed assets (building and equipment) was to be reported under used capital expenditures.

Total expenditures for used plant and equipment is a universe figure; it is collected on all census forms. However, the breakdown of this figure between expenditures for used buildings and other structures and expenditures for used machinery and equipment is collected only on the ASM form. The data for total new capital expenditures, new building expenditures, and new machinery expenditures, as well as the data for total used expenditures, are shown in table 3b.

End-of-year inventories—Respondents were asked to report their 1986 and 1987 end-of-year inventories at cost or market. Effective with the 1982 Economic Censuses, this change to a uniform instruction for reporting inventories was introduced for all sector reports. Prior to 1982, respondents were permitted to value inventories using any generally accepted accounting method (FIFO, LIFO, market, to name a few). In 1982, LIFO users were asked to first report inventory values prior to the LIFO adjustment and then to report the LIFO reserve and the LIFO value after adjustment for the reserve.

Because of this change in reporting instructions, the 1982 through 1987 data for inventories and value added by manufacture included in the tables of this report are not comparable to the prior-year data shown in table 1a of this report and in historical census of manufactures and annual survey of manufactures publications.

In using inventory data by stage of fabrication for "all industries" and at the two-digit industry level, it should be noted that an item treated as a finished product by an establishment in one industry may be reported as a raw material by another establishment in a different industry. For example, the finished-product inventories of a steel mill would be reported as raw materials by a stamping plant. Such differences are present in the inventory figures by stage of fabrication shown for individual industries, industry groups, and "all manufacturing", which are aggregates of figures reported by establishments in specified industries.

Specialization and coverage ratios—These items are not collected on the report forms but are derived from the data shown in table 5b. An establishment is classified in a particular industry if its shipments of primary products of that industry exceed in value its shipments of the products of any other single industry.

As noted in the introduction, an establishment's shipments include those products assigned to an industry (primary products), those considered primary to other industries (secondary products), and receipts for miscellaneous activities (merchandising, contract work, resales, etc.). Specialization and coverage ratios have been developed to measure the relationship of primary product shipments to the data on shipments for the industry shown in tables 1a through 5a and data on product shipments shown in tables 6a through 6c.

Specialization ratio represents the ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for the establishments classified in the industry.

Coverage ratio represents the ratio of primary products shipped by the establishments classified in the industry to the total shipments of such products that are shipped by all manufacturing establishments wherever classified.

SECTION 2. ITEMS COLLECTED ONLY ON ASM REPORT FORMS

The following items were collected only from establishments included in the ASM sample:

 Supplemental labor costs—Supplemental labor costs are divided into legally required expenditures and payments for voluntary programs. The legally required portion consists primarily of Federal old age and survivors' insurance, unemployment compensation, and workers' compensation. Payments for voluntary programs include all programs not specifically required by legislation whether they were employer initiated or the result of collective bargaining. They include the employer portion of such plans as insurance premiums, premiums for supplemental accident and sickness insurance, pension plans, supplemental unemployment compensation, welfare plans, stock purchase plans on which the employer payment is not subject to withholding tax, and deferred profit-sharing plans.

They exclude such items as company-operated cafeterias, in-plant medical services, free parking lots, discounts on employee purchases, and uniforms and work clothing for employees. While the excluded items do benefit employees and all or part of their cost generally is similar to the items covered in the ASM labor costs statistics, accounting records generally do not provide reliable figures on net employee benefits of these types.

- 2. Retirements of depreciable assets—Included in this item is the gross value of assets sold, retired, scrapped, destroyed, etc., during 1987. When a complete operation or establishment changed ownership, the respondent was instructed to report the value of the assets sold at the original cost as recorded in the books of the seller. The respondent also was requested to report retirements of equipment or structures owned by a parent company that the establishment was using as if it were a tenant.
- 3. Depreciation charges for fixed assets—This item includes depreciation and amortization charged during the year against assets. Depreciation charged against fixed assets acquired since the beginning of the year and against assets sold or retired during the year are components of this category. Respondents were requested to make certain that they did not report accumulated depreciation.
- 4. Rental payments—Total rental payments is collected on all census forms. However, the breakdown between rental payments for buildings and other structures and rental payments for machinery and equipment is collected only on the ASM forms. This item includes rental payments for the use of all items for which depreciation reserves would be maintained if they were owned by the establishment, e.g., structures and buildings, and production, office, and transportation equipment. Excluded are royalties and other payments for the use of intangibles and depletable assets, and land rents where separable.

When an establishment of a multiestablishment company was charged rent by another part of the same company for the use of assets owned by the company, it was instructed to exclude that cost from rental payments. However, the book value (original cost) of these company-owned assets was to be reported as assets of the establishment at the end of the year.

If there were assets at an establishment rented from another company and the rents were paid centrally by the head office of the establishment, the company was instructed to report these rental payments as if they were paid directly by the establishment.

5. Depreciable assets—Total value of gross depreciable assets is collected on all census forms.

However, the detail for depreciable assets is collected only on the ASM forms. The data encompass all fixed depreciable assets on the books of establishments at the beginning and end of the year. The values shown (book value) represent the actual cost of assets at the time they were acquired, including all costs incurred in making the assets usable (such as transportation and installation). Included are all buildings, structures, machinery, and equipment (production, office, and transportation equipment) for which depreciation reserves are maintained. Excluded are nondepreciable capital assets, including inventories and intangible assets, such as timber and mineral rights.

The definition of fixed depreciable assets is consistent with the definition of capital expenditures. For example, expenditures include actual capital outlays during the year, rather than the final value of equipment put in place and buildings completed during the year. Accordingly, the value of assets at the end of the year includes the value of construction in progress. In addition, respondents were requested to make certain that assets at the beginning of the year plus new and used capital expenditures, less retirements, equalled assets at the end of the year.

- 6. New and used capital expenditures—The data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used capital expenditures are collected on all census forms. However, the breakdown between expenditures for used buildings and other structures and expenditures for used machinery and equipment is collected only on the ASM form. (See further explanation on capital expenditures in section 1.)
- 7. Quantity of electric energy consumed for heat and power—Data on the cost of purchased electric energy were collected on all census forms. However, data on the quantity of purchased electric energy were collected only on the ASM forms. In addition, information was collected on the quantity of electric energy generated by the establishment and the quantity of electric energy sold or transferred to other plants of the same company.
- 8. Breakdown of new capital expenditures for machinery and equipment—ASM establishments were requested to separate their capital expenditures for new machinery and equipment into (1) automobiles, trucks, etc., for highway use, (2) computers and peripheral data processing equipment, and (3) all other.

The category "automobiles, trucks, etc., for highway use" is intended to measure expenditures for vehicles designed for highway use that were acquired through a purchase or lease-purchase agreement.

Vehicles normally operating off public highways (vehicles specifically designed to transport materials, property, or equipment on mining, construction, logging, and petroleum development projects) are excluded from this item.

- 9. Foreign content of cost of materials—Establishments included in the ASM sample panel were requested to provide information on foreign-made materials purchased or transferred from foreign sources. This includes materials acquired from a central warehouse or other domestic establishment of the same company but made in an operation outside of the 50 States, District of Columbia, Puerto Rico, or U.S. territories.
- 10. Cost of purchased services—ASM establishments were requested to provide information on the cost of purchased services for the repair of buildings and other structures, the repair of machinery, and communication services. Included in the cost of purchased services for the repair of buildings and machinery are payments made for all maintenance and repair work on buildings and equipment, such as painting, roof repairs, replacing parts, and overhauling equipment. Such payments made to other establishments of the same company and for repair and maintenance of any leased property also are included. Extensive repairs or reconstruction that were capitalized are considered capital expenditures for used buildings and machinery and are, therefore, excluded from this item. Repair and maintenance costs provided by an owner as part of a rental contract or incurred directly by an establishment in using its own work force also are excluded.

Three basic approaches were utilized to produce these statistics.

1. For items 1 through 6, data were estimated (imputed) for all non-ASM establishments using the available data in the establishment record and industrybased parameters. The statistics were then generated by simply tabulating all census records including the imputed value for non-ASM establishments and the unweighted value for ASM establishments. Separate imputation rates were developed and are shown in the table. For quantity of purchased electricity for heat and power (item 7), a similar procedure was used; however, the imputation parameters were geographically-based instead of industrybased. For quantities of generated less sold electricity, no imputation was performed for non-ASM establishments. The estimates for these items are simply tabulations of unweighted ASM values.

Since the published statistics for these items were developed from the complete census universe and not just the ASM establishments, there are no sampling variances associated with these statistics. However, there is an unknown level of bias for each of the items due to the imputation of the non-ASM establishments. This bias is felt to be small due to the strong correlation between the items being imputed and the collected items that were used to generate the impute values.

2. For items 8 and 9, the estimates were developed using a ratio estimation methodology. For item 8, an estimate of the breakout of new capital expenditures for machinery and equipment into the three categories was made from ASM establishments reporting these categories. The estimated proportions were then applied to the corresponding Census value for new capital expenditures for machinery and equipment to produce the estimates.

The estimates for item 9, foreign content of cost of materials, were developed in a similar manner based on costs of parts, supplies, and components (item 5a) as the control total for the three categories.

For items 8 and 9, an adjustment ratio of the following form was computed.

$$Rj = \frac{NMc}{TMEasm}$$

where:

NMc = the census value of new capital expenditures for machinery and equipment

TMEasm = the weighted ASM value of new capital expenditures for machinery and equipment from reporters of the detailed breakout data

3. For item 10, cost of purchased services, the estimates were made by simply tabulating weighted data for all the ASM records that reported the item. A response coverage ratio (a measure of the extent to which respondents reported for each item) is shown in table 3c for the three types of services. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight, see appendix B) for those ASM establishments that reported the specific inquiry to the weighted total employment for all ASM establishments classified in the industry.

APPENDIX B.

Annual Survey of Manufactures (ASM) Sampling and Estimating Methodologies

DESCRIPTION OF SURVEY SAMPLE

The Annual Survey of Manufactures (ASM) contains two components. The mail portion of the survey is a probability sample of about 56,000 manufacturing establishments selected from a total of about 220,000 establishments. These 220,000 establishments represent all manufacturing establishments of multiunit companies and all single establishment companies mailed schedules in the 1982 Census of Manufactures. This mail portion is supplemented annually by a Social Security Administration list of new manufacturing establishments opened after 1982 and a list of new multiunit manufacturing establishments identified from the Census Bureau's Company Organization Survey.

The 1984 through 1988 ASM sample differs slightly from the previous sample. For the current panel, all establishments of companies with 1982 shipments in manufacturing in excess of \$500 million were included in the survey panel with certainty. There are approximately 500 such companies collectively accounting for approximately 18,000 establishments. For the remaining portion of the mail survey, the establishment was defined as the sampling unit. For this portion, all establishments with 250 employees or more and establishments with a very large value of shipments also were included in the survey panel with certainty. A total of 12,100 establishments were selected from this portion of the universe with certainty. Therefore, of the 56,000 manufacturing establishments included in the ASM panel, approximately 31,000 are selected with certainty. These certainty establishments collectively account for approximately 80 percent of the total value of shipments in the 1982 census.

Smaller establishments in the remaining portion of the mail survey were sampled with probabilities ranging from 0.999 to 0.005 in accordance with mathematical theory for optimum allocation of a sample. The probabilities of selection assigned to the smaller establishments were proportional to measures of size determined for each establishment. The measures of size depend directly upon each establishment's 1982 product class values and the historic variability of the year-to-year shipments of each product class. Product classes displaying more volatile year-to-year change in shipments at the establishment level were sampled at a heavier rate.

This method of assigning measures of size was used in order to maximize the precision (that is, minimize the variance of estimates of the year-to-year change) in the value of product class shipments. Implicitly, it also gave weight differences in employment, value added, and other

general statistics, since these are highly correlated with value of shipments. Individual sample selection probabilities were obtained by multiplying each establishment's final measure of size by an overall sampling fraction coefficient calculated to yield a total expected sample size.

The sample selection procedure gave each establishment in the sampling frame an independent chance of selection. This method of independent selection permits the rotation of small establishments out of a given sample panel without introducing a bias into the survey estimates.

The nonmail portion of the survey includes all singleestablishment companies that were tabulated as administrative records in the 1982 Census of Manufactures. Although this portion contained approximately 130,000 establishments, it accounted for less than 2 percent of the estimate for total value of shipments at the total manufacturing level. This portion was not sampled; rather, the data for every establishment in this group were estimated based on selected information obtained annually from the administrative records of the Internal Revenue Service and the Social Security Administration. This administrative-record information, which includes payroll, total employment, industry classification, and physical location of the establishment, was obtained under conditions which safeguard the confidentiality of both tax and census records. Estimates of data other than payroll and employment for these small establishments were developed from industry averages.

The corresponding estimates for the mail and nonmail establishments were added together, along with the base-year differences, as defined in the Description of Estimating Procedure section, to produce the figures shown in this publication.

DESCRIPTION OF ESTIMATING PROCEDURES

Most of the ASM estimates for the years 1983-1986 were computed using a difference estimation procedure. For each item, a base-year difference was developed. This base-year difference is equal to the difference between the 1982 census published number for an item total and the linear ASM estimate of the total for 1982. The ASM linear estimate was obtained by multiplying each sample establishment's data by its sample weight (the reciprocal of its probability of selection) and summing the weighted values.

These base-year differences were then added to the corresponding current-year linear estimates, which include the sum of the estimates for the mail and nonmail establishments, to produce the estimates for the years 1983-1986. Estimates developed by this procedure usually are far more reliable than comparable linear estimates developed from the current sample data alone.

The 1987 sample estimates for the purchased service items, shown in table 3c, are strictly ASM linear estimates, however, developed only from ASM establishments that reported the specific item.

The remaining estimates in table 3c, showing the break-down of expenditures for new machinery and equipment and costs of parts (separated into purchases from foreign sources and purchases from domestic sources), were computed as ratio estimates. To do this, linear estimates of the new machinery detail items were developed from the ASM establishments and were ratio adjusted to the corresponding census total for new machinery. In a similar fashion, the ASM linear estimates of the detailed purchased materials items were ratio adjusted to the corresponding census total for cost of parts.

QUALIFICATIONS OF THE DATA

The estimates developed from the sample are apt to differ somewhat from the results of a survey covering all companies in the sampled lists but otherwise conducted under essentially the same conditions as the actual sample survey. The estimates of the magnitude of the sampling errors (the differences between the estimates obtained and the results theoretically obtained from a comparable, complete-coverage survey) are provided by the standard errors of the estimates.

The particular sample selected for the ASM is one of a large number of similar probability samples that, by chance, might have been selected under the same specifications. Each of the possible samples would yield somewhat different sets of results, and the standard errors are measures of the variation of all the possible sample estimates around the theoretical, comparable, complete-coverage values.

Estimates of the standard errors have been computed from the sample data for selected statistics in this report. They are presented in the form of relative standard errors (the standard errors divided by the estimated values to which they refer).

In conjunction with its associated estimate, the relative standard error may be used to define confidence intervals (ranges that would include the comparable, completecoverage value for specified percentages of all the possible samples).

The complete coverage value would be included in the range:

- From one standard error below to one standard error above the derived estimate for about twothirds of all possible samples.
- From two standard errors below to two standard errors above the derived estimate for about 19 of 20 of all possible samples.
- From three standard errors below to three standard errors above the derived estimate for nearly all samples.

An inference that the comparable, complete-survey result would be within the indicated ranges would be correct in approximately the relative frequencies shown. Those proportions, therefore, may be interpreted as defining the confidence that the estimates from a particular sample would differ from complete-coverage results by as much as one, two, or three standard errors, respectively.

For example, suppose an estimated total is shown as 50,000 with an associated relative standard error of 2 percent, that is, a standard error of 1,000 (2 percent of 50,000). There is approximately 67 percent confidence that the interval 49,000 to 51,000 includes the complete-coverage total, about 95 percent confidence that the interval 48,000 to 52,000 includes the complete-coverage total and almost certain confidence that the interval 47,000 to 53,000 includes the complete coverage total.

In addition to the sample errors, the estimates are subject to various response and operational errors: errors of collection, reporting, coding, transcription, imputation for nonresponse, etc. These operational errors also would occur if a complete canvass were to be conducted under the same conditions as the survey. Explicit measures of their effects generally are not available. However, it is believed that most of the important operational errors were detected and corrected in the course of the Bureau's review of the data for reasonableness and consistency. The small operational errors usually remain. To some extent, they are compensating in the aggregated totals shown. When important operational errors were detected too late to correct the estimates, the data were suppressed or were specifically qualified in the tables.

As derived, the estimated standard errors included part of the effect of the operational errors. The total errors, which depend upon the joint effect of the sampling and operational errors, are usually of the order of size indicated by the standard error, or only moderately higher. However, for particular estimates, the total error may considerably exceed the standard errors shown.

The concept of complete coverage under the conditions prevailing for the ASM is not identical to the complete coverage of the census of manufactures, as the censuses have been conducted. Nearly all types of operational errors that affect the ASM also occur in the censuses. The ASM and the censuses, are conducted under quite different conditions, and operational errors can be better controlled in the ASM than in the censuses. As a result, for many of the census figures, the errors are of the same order of size as the total errors of the corresponding annual survey estimates. The differences between the census and ASM operating conditions also disturb, to some degree, the comparability of the ASM and census data.

Any figures shown in the tables in this publication having an associated standard error exceeding 15 percent may be of limited reliability. However, the figure may be combined with higher-level totals, creating a broader aggregate, which then may be of acceptable reliability.

APPENDIX C. Changes in Census of Manufactures Product Classes for 1987

[Based on revisions to the Standard Industrial Classification (SIC) Manual definitions of some product classes were revised for 1987. Listed below are the revisions to the product classes]

1987	1982	1987	1982	1987	1982	1987	1982
2011B	2011A 2013A pt	20866 — Con.	20861 pt—Con. 20995 pt	2221F—Con.	22211 pt—Con. 22212 pt 22213 pt	23259 — Con.	23279—Con. 23289 pt
20135	20130	20910	20324 pt		22214 pt 22215 pt	23260	23280
2013B	2013A pt	20925	20910		22216 pt 22217 pt	23261	23281
20150	20160 20170	20926	20924	2221G	22211 pt	23262	23284
20151	20161 20171	20961 20962 20963	20992		22212 pt 22213 pt 22214 pt	23269	23289 pt
20152	20162	20980	20981 pt		22215 pt 22216 pt 22217 pt	23293	23271 pt 23292
20153	20172	20997	20341 pt 20440 pt	2221H	22211 pt 22212 pt	23530	23510 pt 23520
	20173	_	20982 2099A pt		22213 pt 22214 pt	23531	23521
20154	20164 20 1 74	20999	2099B pt		22215 pt 22216 pt 22217 pt	23532	23522
0155	20165 20175	2099D	20995 pt	2221J	22218	23533	23510 pt
0159	20179	2099E 2099F	2099C 20981 pt	2221K	22219	23692	23631
0226	20220	2099G	2000 F.	2221M	2221A	23693	23691
0239	20239	2211B	22111 pt 22112 pt	22510	22510 pt	23699	23619 23699
20267	2099A pt 20266 pt		22113 pt 22114 pt 22115 pt	22514	22512 pt	23813	23811 pt 23812 pt
.0207	2099B pt	2211C	22116 pt	22518	22517 pt	23814	23811 pt
20268	20266 pt 2099B pt	22110	22111 pt 22112 pt 22113 pt	22520	22510 pt 22520	20052	23812 pt
0324	20324 pt		22114 pt 22115 pt 22116 pt	22525	22512 pt	23952	23951 pt 23959
10343	20341 pt	2211D			22523		
0380	20380 pt	2211D	22111 pt 22112 pt 22113 pt	22526	22517 pt 22524	23964	23951 pt 24920 pt
20384	20381 pt 20383 pt		22114 pt 22115 pt 22116 pt	22585	22920 pt	2.000	26610
20415	20383 pt	2211E	22111 pt	22589	22589 22920 pt	24931	24920 pt
0440	20415 20440 pt	-	22112 pt 22113 pt 22114 pt	22730	22710 pt	24932	24920 pt 24993
0450	20383 pt	-	22114 pt 22115 pt 22116 pt		22720 pt 22790 pt	24933	24996
	20450	2211F	22117	22731	22710 pt	24934	26611
0470	20470 pt	2211G	22119	22732	22720 pt		
0480	20470 pt 20480	2211H	2211A	22733	22790 pt	24936	24998
048A	20475	2221B	22211 pt	22815	22833	24994	2499A pt
0530	20476 20380 pt	_	22212 pt 22213 pt 22214 pt	22822	22822 22830	25115	25115
	20381 pt		22215 pt 22216 pt 22217 pt	22991	22910	25145	25158 25141
0640	20650 pt	2221C	22211 pt	22994	22940	25145	25141 25142
20642	20652		22212 pt 22213 pt	22995	22930	25146	25143
20643	20653		22214 pt 22215 pt 22216 pt	22996	22992	25147	25144
20649	20659		22217 pt	00010	22993	25425 25991	25990
	20660 20990 pt	2221D	22211 pt 22212 pt 22213 pt	23219	23219 pt 23220	25992 25994	
20669	20668 20998		22213 pt 22214 pt 22215 pt	23221	23220	2621B	26612
20680	20341 pt		22216 pt 22217 pt	23229	23219 pt	26560	26540
	20650 pt 20657	2221E	22211 pt	LULEU	23229 pt	26561	26541
20863 20864	20861 pt		22212 pt 22213 pt	23250	23270	26562	26542
:0864 :0865	20001 pt		22214 pt 22215 pt 22216 pt	23251	23271 pt	26563	26545
			22217 pt	23252	23283	26570	26510

1987	1982	1987	1982	1987	1982	1987	1982	
26710	26410 pt	26753	26455	27591	27511 pt	28350—Con. 28351	2831A-Con.	
26711	26415	26760	26470	27592	27512 pt	28352		
26712	26416	26761	26471	27593	27513 pt	28360	28310	
6713	26419	26763	26473	27594	27514 pt	28361	28311	
6714	2641A	26764	26474	27595	27515 pt	28362	28312	
6720	26410 pt	26770	26420	27596	27516 pt	28363	28317	
6721	26411	26780	26480	27597	27511 pt 27512 pt 27513 pt	28364	28318 28319	
6722	26413	26781	26481		27514 pt 27515 pt	28656	2911C	
		26782	26482		27516 pt	28691	2911B	
6723	26414	26790	26460 pt 26490	27598	27519	28916	28915	
6724	2641B	26791	26493	27599	27531	28917		
6730	26430 pt			2759A	27510 pt	2911D	2911D pt	
6731	26435	26792	26494	27960	27530 27950	29990	2911D pt 29990	
6732	26436	26793	26496			0.1100		
6733	26437	26794	264 <mark>6</mark> 0 pt	27961	27951 35557 pt	31430	31430 31433 31434	
5740	26430 pt	26795	26497	27962	27952		31435	
6741	26434	27416 27417	27411	27963	27532 27547	31440	31440 31445	
6742	26438	27418	27412		27547 27930 27940		31446 31447 31448	
6750	26450	27419	27414	28247	28243	31490	31490	
6751	26453	2741A	27415	20240	28245		31491 31493	
26752	26454	2741B 27590	27510 pt	28248	28246 2831A	-	31495 31496 31497	

APPENDIX D. Changes in Census of Manufactures Product Codes for 1987

1987 published	1987 collected	1982 published	1987 published	1987 collected	1982 published	1987 published	1987 collected	1982 published	1987 published	1987 collected	1982 published
20119 14	20119 14	20119 12 20119 13	20159 17	20179 17	20179 17	20343 21	20341 21	20341 21	20488 21	20488 21	20488 18
0044D 45	0011D 15		20159 51	20179 51	20179 51	20343 23	20341 23	20341 23	20488 23	20488 23	20488 17 pt
2011B 15 2011B 41	2011B 15 2011B 41	2011A 15 2011A 41	20159 53	20179 53	20179 53	20343 29	20341 29	20341 29	20488 25	20488 25	20488 19 pt
2011B 41 2011B 55	2011B 41 2011B 55	2011A 55	20159 55	20179 55	20179 55	20343 31	20341 31	20341 32 20341 33	20488 31	20488 31	20488 17 pt
2011B 99	2011B 99	2011A 31	20159 57	20179 57	20179 57			20341 35	20488 33	20488 33	20488 19 pt
	20110 33	2011A 51	20226 00	20220 11	20220 00	20352 31 20352 34	20352 31 20352 34	20352 33	2048A 01	20475 35	20475 35
20135 13 20135 17	20135 13 20135 17	20130 00	20235 22	20235 22	20235 28 pt	20354 35	20354 35	20354 31	2048A 03	20475 52	20475 52
20151 33	20161 33	20161 33	20235 29	20235 29	20235 21			20354 33 20354 39	2048A 05	20476 61	20476 61
20151 34	20161 34	20161 34		20000 00	20235 28 pt	20382 26 20382 28	20382 26 20382 28	20382 27	2048A 07	20476 63	20476 63
20151 36	20161 36	20161 36	20239 23	20239 23	20239 29 pt	20384 51	20383 51	20383 51	2048A 09	20476 65	20476 65
20151 39	20161 39 20171 39	20161 39 20171 39	20239 25	2099A 12	2099A 11 pt	20384 59	20383 59	20383 59	2048A 11	20476 67	20476 67
20151 41	20161 41	20161 41	20239 28	20239 28	20239 29 pt 20239 31	20384 63	20383 63	20381 18	2048A 13	20476 69	20476 69
	20171 41	20171 41	20239 32	20239 38	20239 37	20384 69	20383 69	20383 61 pt	20512 39 20512 40 20512 42	20512 39 20512 40 20512 42	20512 38
20152 21	20162 21 20172 21	20162 21 20172 21	20240 31	20240 31	20239 39 20240 98 pt	20411 26	20411 26	20411 24 20411 25	20530 11	20381 11	20381 11
20152 23	20162 23 20172 23	20162 23 20172 23	20240 52	20240 52	20240 51	20412 19	20412 19	20412 00	20530 13	20381 13	20381 13
20153 22	20163 22 20173 22	20163 21 pt 20173 21 pt	20240 54	20240 54	00040.00	20415 91	20383 65	20412 17	20530 14	20381 14	20381 14
20153 24	20163 24	20163 23 pt	20240 99	20240 99 2099B 11	20240 98 pt 2099B 11	20415 93	20383 66		20530 17	20381 17	20381 17
	20173 24	20173 23 pt	20267 13	2099B 13	2099B 13	20430 21 20430 23	20430 21 20430 23	20430 19	20530 19	20381 19	20381 19
20153 26	20163 26 20173 26	20163 25 pt 20173 25 pt	20267 14	2099B 14	2099B 19 pt	20430 55	20430 55	20430 52 pt	20642 00	20652 00	20652 00
20153 27	20163 27	20163 21 pt 20163 23 pt	20267 16	2099B 16		20430 57	20430 57	20430 53 pt	20643 00	20653 00	20653 00
	20173 27	20163 25 pt 20173 21 pt	20267 17	20267 17	20266 17	20430 61	20430 61	20430 59 pt	20649 21	20659 21	20659 21
		20173 23 pt 20173 25 pt	20267 18	2099B 18	2099B 19 pt	20430 63	20430 63	20430 52 pt 20430 53 pt	20649 76	20659 76	20659 76
20154 14	20164 14 20174 14	20164 14 20174 14	20268 13	2099B 51	2099B 51			20430 59 pt	20669 11	20668 11 20998 11	20668 11 20998 11
20154 16	20164 16	20164 16	20268 15	20268 15	20266 15	20450 91 20450 93	20383 67 20383 68	20383 61	20669 21	20668 21 20998 21	20668 21 20998 21
	20174 16	20174 16	20268 19	20268 19	20266 19	20464 72	20464 72	20464 69	20669 63	20668 63	20668 63
20155 11	20165 11 20175 11	20165 11 20175 11	20324 99	20324 97	20324 98	20464 75	20464 70	20481 13 pt		20998 63	20998 63
20155 13	20165 13 20175 13	20165 13	20331 13	20331 13	20331 71	20481 22	20481 21	20481 17 pt	20669 71	20668 71 20998 71	20669 71 20998 71
20155 15	20165 15	20175 13	20331 32	20331 32	20331 72	20481 23	20481 23	20481 26 pt	20669 75	20668 75 20998 75	20668 75 20998 75
	20175 15	20175 15	20331 36	20331 36	20331 73	20481 24	20481 24	20481 28 pt	20669 81	20668 81	20668 81
20155 31	20165 31 20175 31	20165 31 20175 31	20331 38	20331 38	20331 74	20481 31	20481 31	20481 13 pt	20669 92	20668 92	20668 92
20155 32	20165 32	20165 32	20331 41	20331 41	20331 75	20481 32	20481 32	20481 17 pt		20998 92	20998 92
20155 33	20175 32	20175 32	20332 05	20332 05	20332 08 20332 09 20332 92	20481 33	20481 33	20481 26 pt	20669 93	20668 93 20998 93	20668 93 20998 93
	20175 33	20165 33	20332 37	20332 37	20332 96	20481 34	20481 34	20481 28 pt	20669 95	20668 95 20998 95	20668 95 20998 95
20155 34	20165 34 20175 34	20165 34 20175 34	20336 14	20336 14	20336 13	20483 01 20483 02	20483 01 20483 02	20483 00	20670 11 20670 14	20670 11 20670 14	20670 12
20155 39	20165 39 20175 39	20165 39 20175 39	20336 15 20336 31	20336 15 20336 31	20336 19	20485 03 20485 04	20485 03 20485 04	20485 00	20670 14	20670 14	20657 13
20155 48	20165 48	20165 48	2033B 21	2033B 21	2033B 00	20487 05	20487 05	20487 00	20680 15	20657 15	20657 15
20159 11	20175 48	20175 48	20343 13	20341 13	20341 13	20487 06	20487 06		20680 17	20657 17	20657 17
20159 13	20179 13	20179 11	20343 15	20341 15	20341 15	20488 11	20488 11	20488 14	20680 33	20657 33	20657 33
20159 15	20179 15	20179 15	20343 18	20341 18	20341 18	20488 12 20488 13	20488 12 20488 13	20488 15	20680 35	20657 35	20657 35
		20170 10	1								

1987 published	1987 collected	1982 published	1987 published	1987 collected	1982 published	1987 published	1987 collected	1982 published	1987 published	1987 collected	1982 published		
20680 37	20657 37	20657 37	20863 20 — Con.	20863 20— Con.	20863 01— Con.	20922 27 20922 28	20922 27 20922 28	20922 29	2099E 33	2099E 33	2099C 33		
20680 53	20657 53	20657 53			20863 36 20863 37	20922 31	20922 31		2099E 38	2099E 38	2099C 38		
20680 55	20657 55	20657 55	_		20863 38 20863 39 20863 42	20923 11 20923 13	20923 11 20923 13	20923 21	2099E 39	2099E 39	2099C 39		
20680 57	20657 57	20657 57			20863 44 20863 45	20923 15	20923 15	20923 22	2099F 44	2099F 44	2099C 44		
20680 61	20657 61	20657 61			20863 47	20923 17	20923 17	20923 22	2099F 46	2099F 46	2099C 46		
20740 98	20740 98	20740 00	20863 30	20863 30	20861 01 pt 20861 03 pt	20923 19	20923 19	20923 23	2099G 11	2099G 11	2099C 11		
20750 96	20750 98	20750 00			20861 07 pt 20861 10 pt 20861 11 pt	20923 31 20923 33	20923 31 20923 33	20923 26	2099G 25	2099G 25	2099C 25		
20760 94 20760 95	20760 94 20760 95	20760 00			20861 12 pt 20861 13 pt	20923 35	20923 35	20923 28	2099G 51	2099G 51	2099C 51		
20760 96 20760 97	20760 96 20760 97				20861 14 pt 20861 15 pt	20020 00		20923 29	2099G 85	2099G 85	2099C 85		
20760 98	20760 98	00004.44	_		20861 16 pt 20861 17 pt	20925 21	20925 21	20924 21	2099G 91	2099G 91	2099C 91		
20821 01	20821 01	20821 14 20821 19 pt			20861 18 pt 20861 19 pt	20925 22	20925 22	20924 22	2099G 98	2099G 98	2099C 98		
20821 02	20821 02	20821 15 20821 19 pt			20861 20 pt 20861 21 pt 20861 22 pt	20925 23	20925 23	20924 33 pt	2211B 00	2211B 00	22111 00 pt 22112 00 pt		
20821 03	20821 03	20821 18	-		20861 23 pt 20861 24 pt	20925 24	20925 24	20924 24	-		22113 00 pt 22114 10 pt		
		20821 19 pt			20861 26 pt 20861 27 pt	20925 25	20925 25	20924 25			22114 50 pt 22115 00 pt		
20824 99	20824 99	20824 71 20824 81			20861 28 pt 20861 29 pt	20925 26	20925 26	20924 26	20110.00	00440.00	22116 00 pt		
		20824 91	-		20861 31 pt 20861 32 pt	20925 31	20925 31	20924 31	2211C 00	2211C 00	22111 00 pt 22112 00 pt 22113 00 pt		
20840 45 20840 46	20840 45 20840 46	20840 43			20861 33 pt 20861 34 pt 20861 36 pt	20925 32	20925 32	20924 32	-		22114 10 pt 22114 30 pt		
20851 48	20851 48	20851 41			20861 37 pt 20861 38 pt	20925 33	20925 33	20924 33 pt			22114 50 pt 22115 00 pt		
		20851 45 20851 49			20861 39 pt 20861 42 pt	20925 34	20925 34	20924 34			22116 00 pt		
20863 10	20863 10	20861 01 pt 20861 03 pt			20861 44 pt 20861 45 pt 20861 47 pt	20925 35	20925 35	20924 35	2211D 00	2211D 00	22111 00 pt 22112 00 pt 22113 00 pt		
		20861 03 pt 20861 07 pt 20861 10 pt	20864 10	20864 10	20861 51	20925 36	20925 36	20924 36			22114 10 pt 22114 30 pt		
		20861 11 pt 20861 12 pt 20861 13 pt 20861 14 pt	20004 10	20864 10	20861 52 20861 53 20861 55	20926 11 20926 13 20926 98	20926 11 20926 13 20926 98	20924 98			22114 50 pt 22115 00 pt 22116 00 pt		
		20861 15 pt 20861 16 pt 20861 17 pt			20861 56 20861 57 20861 58 20861 59	20951 15	20951 15	20915 18 20951 17	2211E 00	2211E 00	22111 00 pt 22112 00 pt 22113 00 pt		
	20861 18 pt 20861 19 pt 20861 20 pt 20861 21 pt 20861 22 pt	20861 18 pt 20861 19 pt	20861 18 pt 20861 19 pt	20861 18 pt 20861 19 pt	20865 01	20865 01	20861 81 pt	20961 00	20992 13	20992 12			22114 00 22114 10 pt 22114 30 pt
		20005 00	00005.00	20861 83 pt	20980 21	20981 21	20981 21			22114 50 pt 22116 00 pt			
		20861 22 pt 20861 23 pt 20861 24 pt	20865 02	20865 02	20861 81 pt 20861 83 pt 20862 88 pt 20862 89 pt	20980 31	20981 31	20981 31	2211F 00	2211F 00	22117 00		
		20861 25 20861 26 pt	20866 01	01 20866 01		20997 13	2099A 13	2099A 11 pt			22117 11 22117 31		
		20861 27 pt 20861 28 pt	20866 02	20866 02	20862 85	20997 21	2099A 21	2099A 21			22117 51 22117 61		
		20861 29 pt 20861 31 pt			20862 86 20862 88 pt	20997 31	2099A 31	2099A 31	2211G 10 2211G 30	2211G 10 2211G 30	22119 00		
		20861 32 pt 20861 33 pt			20862 89 pt	20997 41	2099A 41	2099A 41	2211H 37	2211H 37	2211A 37		
		20861 34 pt 20861 36 pt 20861 37 pt	20866 03	20866 03	20862 91	20997 61	20341 36	20341 36	2211H 42	2211H 42	2211A 42		
		20861 38 pt	20866 04 20866 05	20866 04 20866 05	20861 93	20997 71	20440 19	20440 19	2211H 43	2211H 43	2211H 43		
		20861 39 pt 20861 42 pt 20861 44 pt	20866 06	20866 06	20861 83 pt	20997 81	20982 35	20982 35	2211H 44	2211H 44	2211A 44		
		20861 45 pt 20861 47 pt	20866 07	20995 85	20995 85	20997 85	20982 41	20982 41	2211H 46	2211H 46	2211A 46		
20863 20	20863 20	20863 01	20866 09	20866 09	20860 00	20997 98	2099A 98	2099A 98	2211H 62	2211H 62	2211A 62		
		20863 03 20863 07	20873 21	20873 21	20873 13 pt 20873 39 pt	20999 21	2099B 21	2099B 21	2211H 65	2211H 65	2211A 65		
		20863 10 20863 12 20863 13	20873 23	20873 23	20873 39 pt	20999 31	2099B 31	2099B 31	2211H 67	2211H 67	2211A 67		
		20863 14 20863 15	20070 20	20073 23	20873 39 pt	20999 35	2099B 35	2099B 98 pt	2211H 69	2211H 69	2211A 69		
		20863 16 20863 17 20863 18	20873 25	20873 25	20873 13 pt 20873 39 pt	20999 41	2099B 41 2099B 53	2099B 41 2099B 98	2211H 73 2211H 75	2211H 73 2211H 75	2211A 75		
		20863 19 20863 20	20873 41	20873 41	20873 13 pt 20873 39 pt	20999 55 20999 98	2099B 55 2099B 99		2221B 00	2221B 00	22211 00 pt 22212 00 pt		
		20863 21 20863 22 20863 23	20873 43	20873 43	20873 13 pt 20873 39 pt	2099D 82	20995 82	20995 82			22213 00 pt 22214 00 pt 22215 00 pt		
		20863 24 20863 26 20863 27	20873 45	20873 45	20873 13 pt 20873 39 pt	2099D 83 2099D 86	20995 83	20995 83			22216 00 pt 22217 10 pt 22217 30 pt		
		20863 28 20863 29 20863 31	20910 19	20324 11	20324 98 pt	2099E 31	2099E 31	2099C 31	2221C 00	2221C 00	22214 00 pt		
		20863 31 20863 32 20863 34		20910 19	20910 19				-	22210 00	22215 00 pt 22216 00 pt		

report forms fo	/ 1307]												
1987 published	1987 collected	1982 published	1987 published	1987 collected	1982 published	1987 published	1987 collected	1982 published	1987 published	1987 collected	1982 published		
2221C 00— Con.	2221C 00 Con.	22214 00 pt —Con.	22514 37	22512 37	22512 37	22840 51	22840 51	22840 15 pt 22840 28 pt	23531 01	23521 15	23521 15		
0011.	0011.	22217 10 pt 22217 30 pt	22514 39	22512 39	22512 36 22512 38	22840 61	22840 61	22840 35	23531 03	23521 41	23521 41		
2221D 00	2221D 00	22211 00 pt	22514 45	22512 45	22512 45	22950 00	22950 00	22950 00	23531 05	23521 83	23521 83		
		22212 00 pt 22213 00 pt 22214 00 pt	22518 14	22517 14	22517 15 pt	22950 98	22950 98		23531 09	23521 91	23521 91		
		22215 00 pt 22216 00 pt	22518 17	22517 17	22517 17	22991 00	22910 00 pt	22910 00 pt	23532 01	23522 12	23522 12		
		22217 10 pt 22217 30 pt	22525 11	22523 11	22523 11	22991 12 22991 13	22910 12 22910 13	22910 11	23532 03	23522 15	23522 15		
221E 00	2221E 00	22211 00 pt	22525 15	22512 11	22512 11	22991 15 22991 17	22910 15 22910 17	22910 19	23532 05	23522 17	23522 17		
		22212 00 pt 22213 00 pt 22214 00 pt	22525 17	22523 17	22523 17	22991 17	22910 17	22910 00	23532 09	23522 98	23522 98		
		22215 00 pt 22216 00 pt	22525 21	22523 21	22523 21	22991 23	22910 23		23533 01	23510 12	23510 12		
		22217 10 pt 22217 30 pt	22525 27	22523 27	22523 27	22991 35	22910 35	22910 36 22910 38	23533 03	23510 41	23510 41		
221F 00	2221F 00	22211 00 pt	22525 31	22523 31	22523 31	22991 47	22910 47	22910 47	23533 09	23510 93	23510 93		
		22212 00 pt 22213 00 pt 22214 00 pt	22525 51	22523 51	22523 51	22994 22	22940 22	22940 14 pt	23613 00	23613 00	23611 30 p 23612 00		
		22215 00 pt 22216 00 pt	22525 57	22523 57	22523 57			22940 21 pt	23614 00	23614 00	23611 30 p		
		22217 10 pt 22217 30 pt	22525 61	22523 61	22523 61	22994 31	22940 31	22940 14 pt 22940 21 pt	23615 00	23615 00	23611 10		
221H 10	2221H 10	22211 00 pt 22212 00 pt	22525 81	22523 81	22523 81	22994 35	22940 35	22940 14 pt 22940 21 pt	23692 00	23631 00	23631 00		
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221M 42	2221M 42	2221A 42	22823 11	22823 11	22823 27 pt 22823 32 pt	23259 12	23289 11	23289 11	23921 14	23921 14	23921 12		
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221M 47	2221M 47	2221A 47 2221A 48	22823 15	22823 15	22823 35 pt 22823 27 pt	23269 00	23289 13	23289 13 23279 00 pt	23921 21	23921 21	23921 18 23921 19		
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1987 published	1987 collected	1982 published	1987 published	1987 collected	1982 published	1987 published	1987 collected	1982 published	1987 published	1987 collected	1982 published
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23924 95	23924 95	23924 87	24290 61	24290 61	24290 63	24933 15	24993 15	24993 15	25116 21	25116 21	25116 99
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						1 24334 14	2400M 14	E433A 13 pt			

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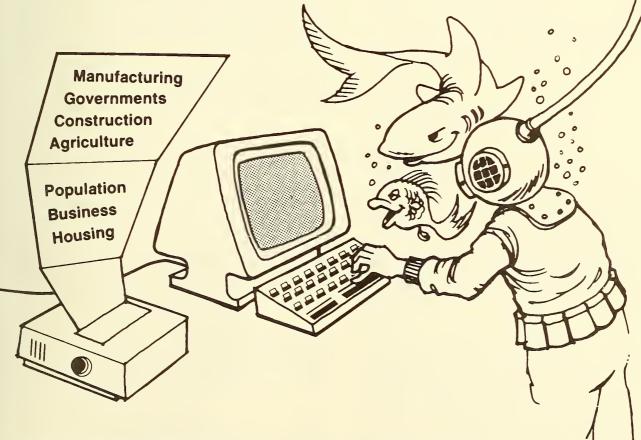


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PUBLICATION PROGRAM

1987 CENSUS OF MANUFACTURES

Publications of the 1987 Census of Manufactures, containing preliminary and final data on manufacturing establishments in the United States, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, DC 20233.

Preliminary Reports

Industry series—83 reports (MC87-I-20A(P) to -39D(P))

Preliminary industry data are issued in 83 separate reports covering 459 industries. Preliminary summary data for the U.S. and States are released in one report.

Final Reports

Industry series—83 reports (MC87-1-20A to -39D)

Each of the 83 reports provides information for a group of related industries ('dairy products' includes industries for butter, cheese, pilk etc.). Final figures for the United States are shown for each of the 459 manufacturing industries on quantity and value of products shipped and materials consumed, cost of fuels and electric energy, capital expenditures, assets, rents inventories employment, payroll, payroll supplements, hours worked, value added by manufacture, number of establishments, and number of companies. Comparative statistics for earlier years are provided where available.

For each industry data on value of shipments, value added buy manufacture, capital expenditures, employment, and payroll are shown by employment-size class of establishment, State, and degree of primary product specialization.

Geographic area series—51 reports (MC87-A-1 to -51)

A separate report is being published for each State and the District of Columbia. Each report presents data for industry groups and industries on value of shipments, cost of materials, value added by manufacture, employment, payroll, hours worked, new capital expenditures, and number of manufacturing establishments for the State, MSA's, counties and selected places. Comparative statistics for earlier census years are shown for the State and large MSA's. Manufacturing totals are presented for each county and for places with significant manufacturing activity. Detailed statistics (including inventories, assets, rents, and energy costs) are presented only in statewide totals.

Subject series-7 reports (MC87-S-1 to -7)

Each of the seven reports contains detailed statistics for an Individual subject, such as concentration ratios in manufacturing, type of organization, water use in manufacturing, textile machinery in place, distribution of sales by class of customer, manufacturers shipments to the Federal Government, and a general national-level summary.

Reference series—1 report (MC87-R-1)

The Numerical List of Manufactured and Mineral Products Includes a description of the principal products and services published in the 1987 Censuses of Manufactures and Mineral Industries

Location of Manufacturing Plants—1 report (MC87-LM)

This report includes data for number of establishments by four-digit SIC industry and by employment-size class for counties, incorporated places of 2,500 inhabitants or more, and zip codes for each State. (This report is available only on magnetic tape and CD-ROM.)

Analytical Reports—3 reports (AR87-1 to -3)

Exports From Manufacturing Establishments (AR87-1)

This report presents data on exports by two- and three-digit SIC industry groups for the United States and States. Information is presented on value of direct report shipments and estimates of the employment required to manufacture these products. Included are estimates of employment in manufacturing and nonmanufacturing establishments that supply parts, materials, and services for production of manufactured exports.

Selected Characteristics of Manufacturing Establishments That Export (AR87-2)

This report presents data on the number of manufacturing companies and establishments that export by major group State, employment size, and ratios of exports to shipments.

Indexes of Production (AR87-3)

The indexes presented in this report are designed to measure the change in physical output of each manufacturing and mineral industry between 1982 and 1987

MICROFICHE

Every final published report in the 1987 Census of Manufactures will be available on microfic e.

PUBLIC-USE COMPUTER TAPES AND COMPACT DISCS

Data from the final industry series, geographic area series, and the local on of Manufacturing Plants report all be available on public-use computer tapes and compact discs-read only memory (CD-ROM). These tapes will provide the same information found in the final reports. Computerized data products are available for users who wish to summarize, rearrange, or process large amounts of data. These products, with corresponding technical documentation, are sold by Data User Services Division, Customer Services (Tapes) Bureau of the Census, Washington, DC 20233.

OTHER ECONOMIC CENSUSES REPORTS

Data on retail trade, wholesale trade, service industries, construction industries, mineral industries, transportation, enterprise statistics, minority-owned businesses, and women-owned businesses also are available from the 1987 Economic Censuses. A separate series of reports covers the censuses of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Northern Mariana Islands. Separate announcements describing these reports are available free of charge from Data User Services Division, Custome Services (Publications), Bureau of the Census, Washington, DC 20233.









